

City of Portland Bureau of Transportation

90% DESIGN REVIEW
OCTOBER 4, 2019

INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	Title Sheet
1A	Index Of Sheets Cont'd. & Std. Dwg. Nos.

Plans for Proposed Project
Grading, Drainage, Structures, Paving, Striping,
Signing, Illumination & Roadside Development

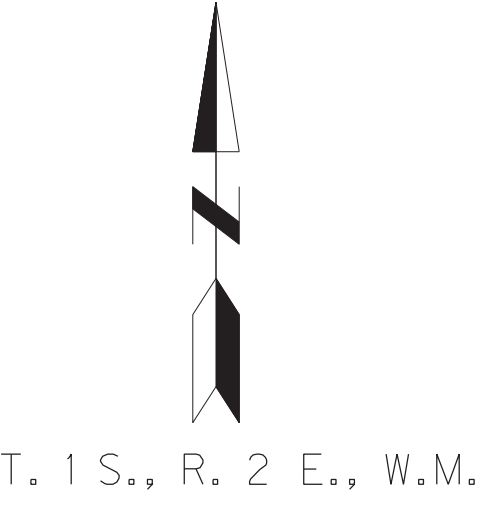
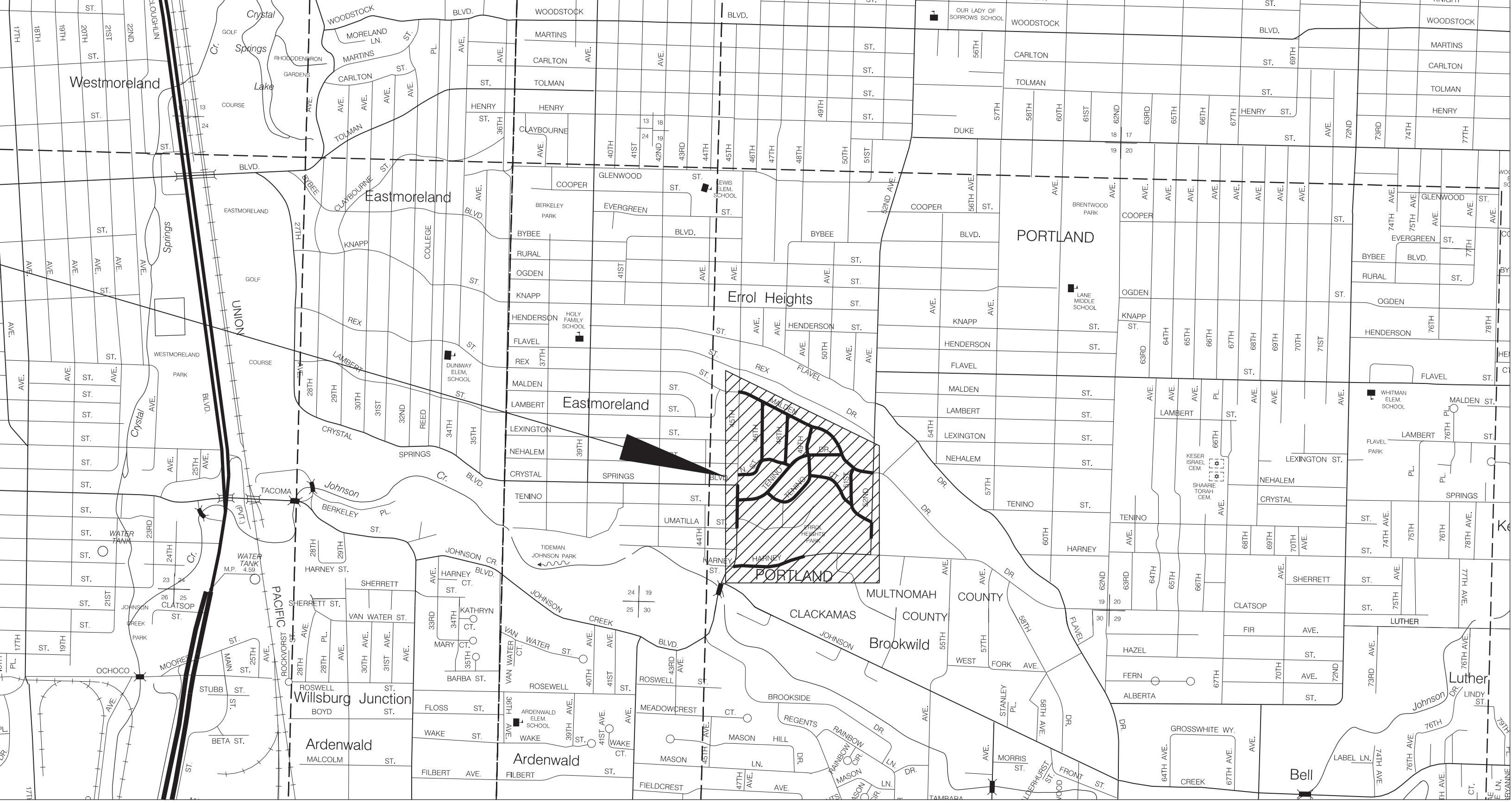
Errol Heights
Street and Storm Drainage Improvements

SE Malden Drive (SE 45th Ave to SE 52nd Ave)
SE Nehalem Street (SE 46th Ave to SE Tenino Drive)
SE Tenino Drive (SE 45th Ave to SE Malden Drive)
SE Tenino Court (SE Tenino Drive to SE 52nd Ave)
SE 48th Ave (SE Malden Drive to SE Tenino Drive)
SE 49th Ave (SE Malden Drive to SE Tenino Court)
SE 51st Ave (SE Malden Drive to SE Tenino Court)

SE 45th Ave
SE Harney Drive
SE 52nd Ave

Multnomah County
October 2019

Project Site



NOTICE TO EXCAVATORS:
ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER.
RULES ARE ALSO LOCATED AT WWW.DIGSAFELYOREGON.COM
NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (503)-232-1987.

POTENTIAL UNDERGROUND FACILITY OWNERS

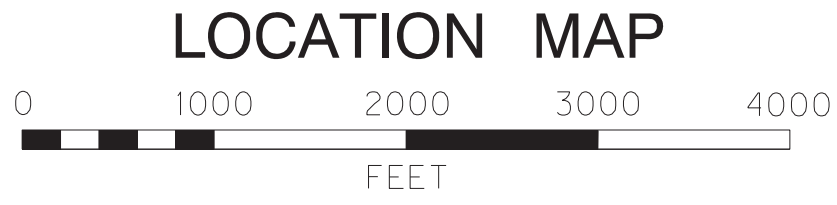
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DIAL 811 or 1-800-332-2344

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PGE 503-464-7777
CENTURYLINK 1-800-573-1311
BUREAU OF TRANS./MAINT. OPERATIONS 503-823-1700
CITY WATER 503-823-4874
VERIZON 1-800-483-1000

WARNING
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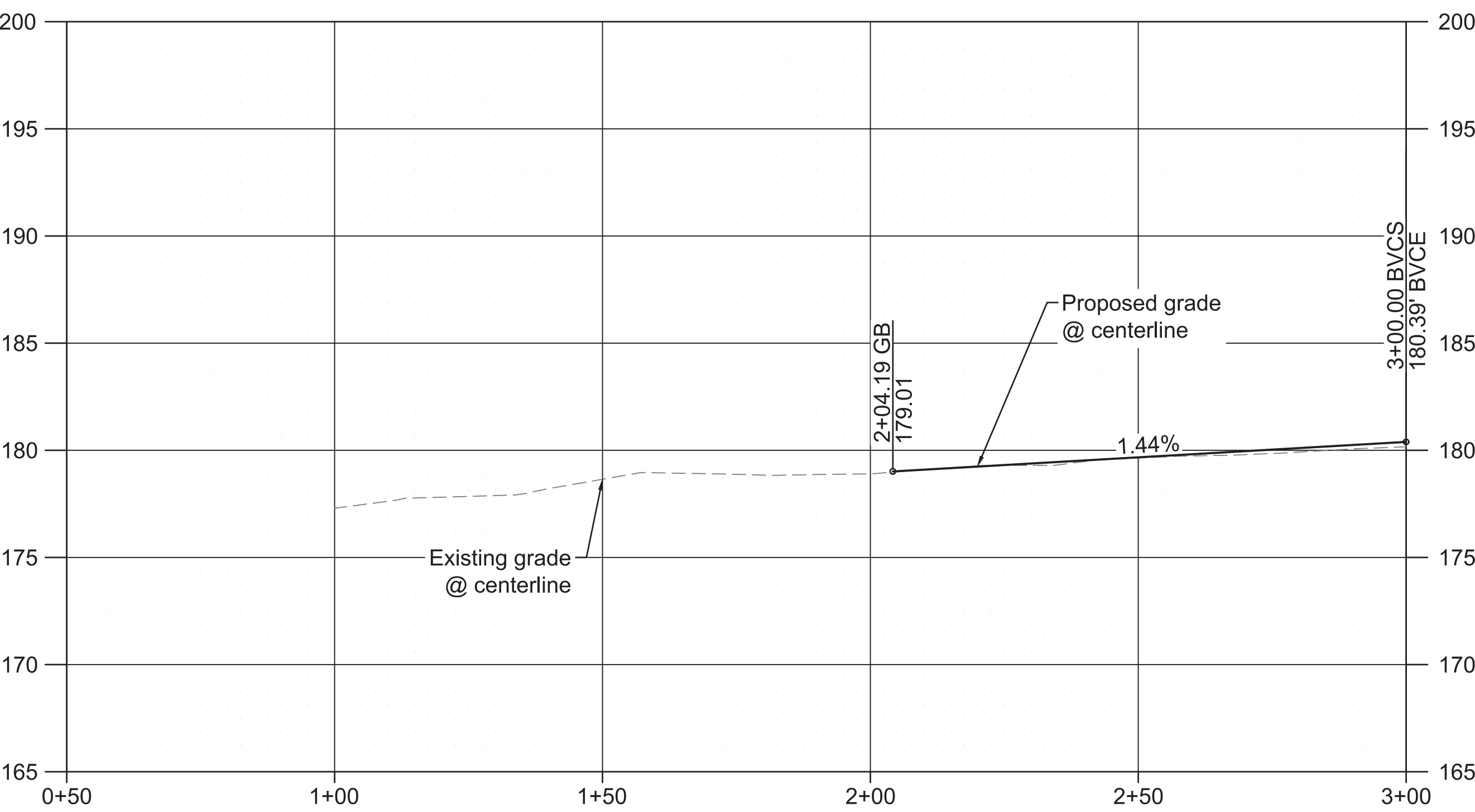
90% DESIGN REVIEW
OCTOBER 4, 2019

General Notes:

- 1 See Shts. 2H-1 thru 2H-13 for Tree Protection Plans
2 See Shts. D-1 thru D-15 for Drainage Plans.
3 See Shts. S-1 thru S-4 for Signing and Striping Plans.
4 See Shts. L-1 thru L-15 for Landscape Plans.

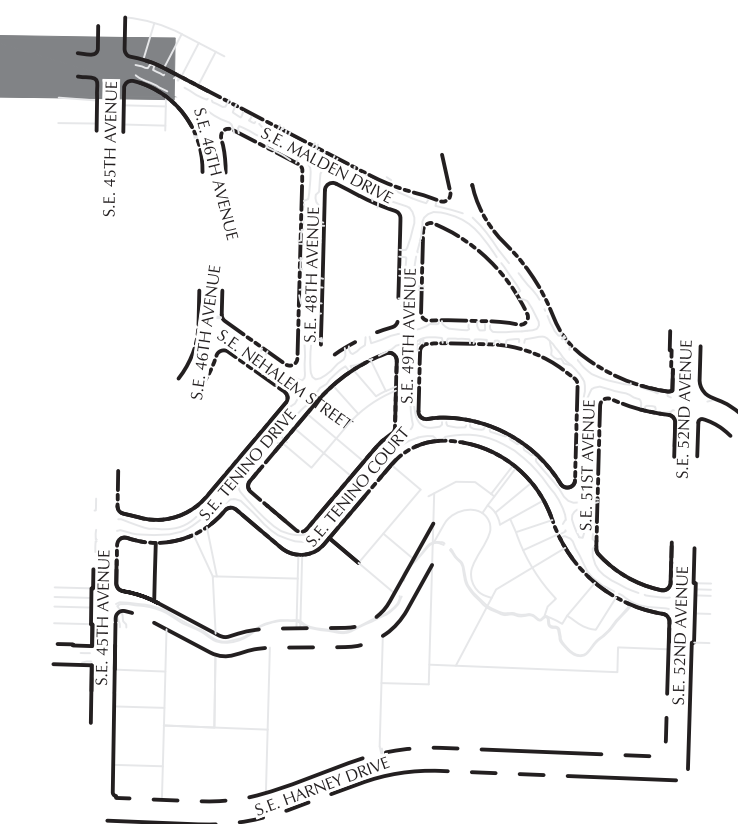
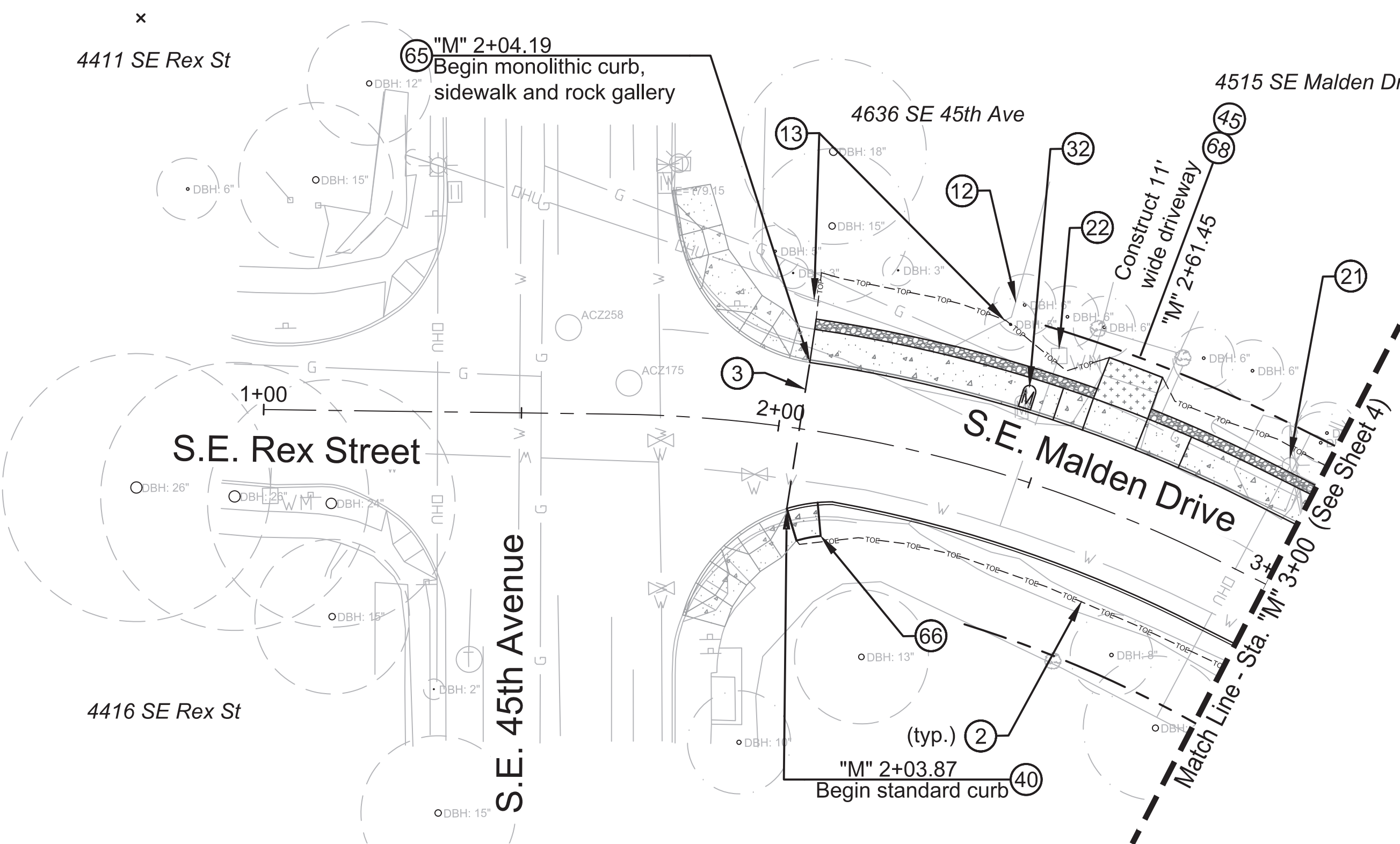
○ Construction Notes

- 2 Limits of cut/fill.
- 3 Sawcut pavement.
- 12 Protect fence.
- 13 Remove fence and salvage to owner.
- 21 Utility pole to remain. Coordinate with utility company to hold/adjust pole elevation as necessary for grading.
- 22 Adjust box to finished grade.
- 32 Relocate mailbox. See Std. Drg. No. RD100 and RD101.
- 40 Construct standard curb. See Std. Drg. No. P-540.
- 45 Construct asphalt driveway connection. See Std. Drg. No. P-536.
- 65 Construct monolithic concrete curb and sidewalk. See Std. Drg. No. P-551.
- 66 Construct end of sidewalk transition. See Std. Drg. No. RD754.
- 68 Construct fully lowered concrete driveway. See Std. Drg. No. P-531.



S.E. MALDEN DRIVE - PROFILE VIEW

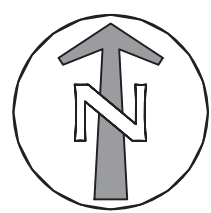
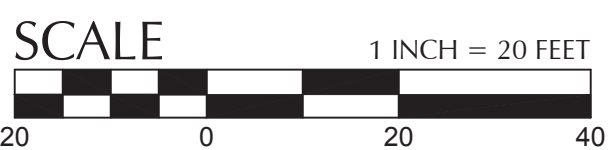
SCALE: 1" = 20'
1" = 5'



KEYMAP

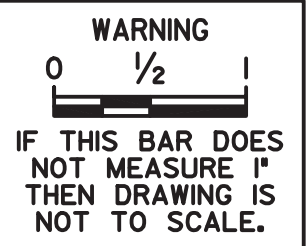


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F: 503.224.4681
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S.E. MALDEN DRIVE - PLAN VIEW

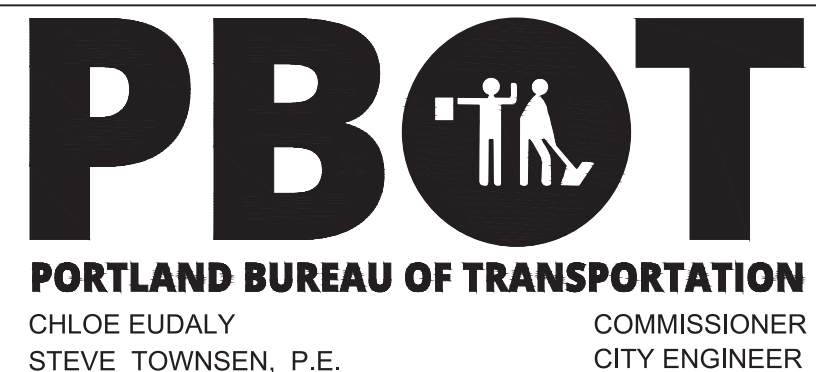
SCALE: 1" = 20'

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DESIGNED BY <i>D. Murar / L. Burke</i>	DATE APPROVED
CAD BY <i>R. Cadua</i>	PROGRAM MGR.
CHECKED BY <i>C. Vanderzanden</i>	CONSTR. MGR.

PRELIMINARY
NOT FOR
CONSTRUCTION

APPROVALS:	
SUPERVISING ENGINEER	REG. PROF. ENGR. NO. 14956PE
CITY ENGINEER	REG. PROF. ENGR. NO. 51538PE



Errol Heights Street and Storm Improvements

S.E. Malden Drive Street Plan and Profile

74 SECTION
1s2e19
PROJECT NO.
T00526.D42
SHEET NO.
3



- 2 Limits of cut/fill.
- 3 Sawcut pavement.
- 5 Protect brush, hedge, other vegetation, or landscaping.
- 7 Remove brush, hedge, other vegetation, or landscaping.
- 9 Remove sidewalk.
- 12 Protect fence.
- 13 Remove fence and salvage to owner.
- 14 Protect water facility.
- 15 Protect wall.
- 18 Remove stump.
- 20 Relocate utility pole / guy wire (by others). Coordinate with utility company.
- 21 Utility pole to remain. Coordinate with utility company to hold/adjust pole elevation as necessary for grading.
- 22 Adjust box to finished grade.
- 23 Water meter to be relocated by PWB.
- 24 Fire hydrant to be relocated by PWB.
- 30 Relocate telephone facility (by others).
- 31 Relocate sign and post. See Shts S-1 thru S-4.
- 32 Relocate mailbox. See Std. Drg. No. RD100 and RD101.
- 39 Construct flush curb. See Sht. 2B-1 detail D.
- 40 Construct standard curb. See Std. Drg. No. P-540.
- 42 Construct concrete sidewalk. See Std. Drg. No. P-551.
- 43 Construct curb ramp. See Std. Drg. No. P-547 & p-548.
- 45 Construct asphalt driveway connection. See Std. Drg. No. P-536.
- 46 Construct modular retaining wall. See Sht. 2B-1 detail A.
- 47 Construct aggregate shoulder - 6 in. thick.
- 50 Adjust manhole to finished grade.
- 51 Protect sanitary sewer main.
- 52 Protect sanitary service lateral.
- 62 Storm Facility. See D sheets for additional information.
- 65 Construct monolithic concrete curb and sidewalk. See Std. Drg. No. P-551.
- 68 Construct fully lowered concrete driveway. See Std. Drg. No. P-531.
- 69 Construct asphalt driveway. See sht. 2B-2 detail A.
- 71 Construct asphalt driveway with curb transition. See sht. 2B-2 detail B.
- 72 Construct 14' speed bump. See Std. Drg. No. P-440

SCALE: 1" = 20'
1" = 5'

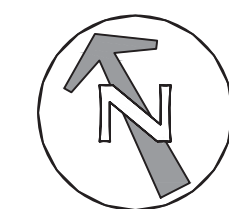


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SCALE: 1" = 20'



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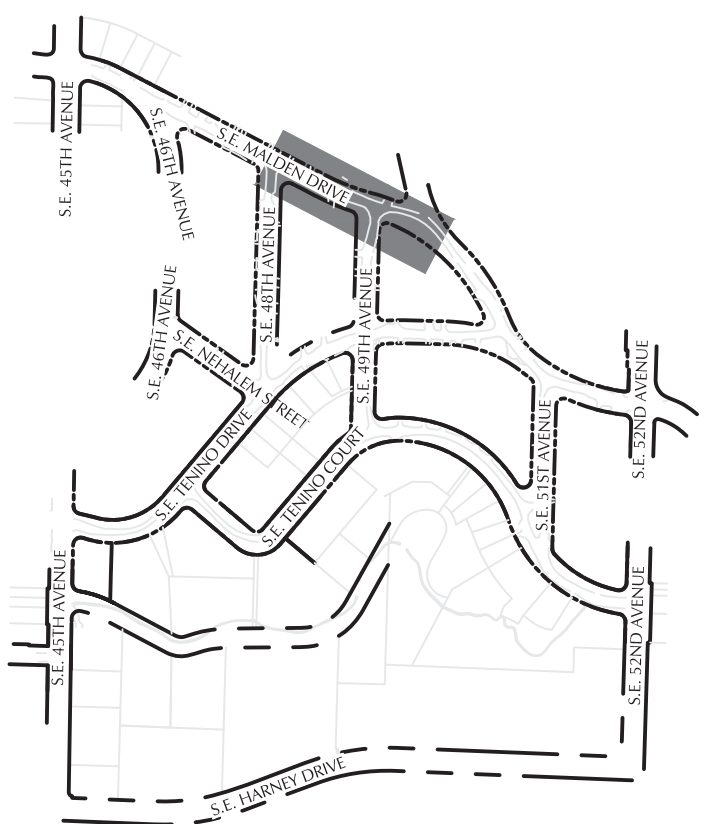
1/4 SECTION
1s2e19
PROJECT NO.
T00526.D
SHEET NO.

General Notes:

- 1 See Shts. 2H-1 thru 2H-13 for Tree Protection Plans
- 2 See Shts. D-1 thru D-15 for Drainage Plans.
- 3 See Shts. S-1 thru S-4 for Signing and Striping Plans.
- 4 See Shts. L-1 thru L-15 for Landscape Plans.

○ Construction Notes

- 2 Limits of cut/fill.
- 5 Protect brush, hedge, other vegetation, or landscaping.
- 7 Remove brush, hedge, other vegetation, or landscaping.
- 9 Remove sidewalk.
- 12 Protect fence.
- 13 Remove fence and salvage to owner.
- 21 Relocate utility pole / guy wire (by others). Coordinate with utility company.
- 22 Adjust box to finished grade.
- 23 Water meter to be relocated by PWB.
- 31 Relocate sign and post. See Shts S-1 thru S-4.
- 40 Construct standard curb. See Std. Drg. No. P-540.
- 42 Construct concrete sidewalk. See Std. Drg. No. P-551.
- 43 Construct curb ramp. See Std. Drg. No. P-547 & p-548.
- 45 Construct asphalt driveway connection. See Std. Drg. No. P-536.
- 46 Construct modular retaining wall. See Sht. 2B-1 detail A.
- 50 Adjust manhole to finished grade.
- 51 Protect sanitary sewer main.
- 52 Protect sanitary service lateral.
- 62 Storm Facility. See D sheets for additional information.
- 64 Remove structure.
- 65 Construct monolithic concrete curb and sidewalk. See Std. Drg. No. P-551.
- 68 Construct fully lowered concrete driveway. See Std. Drg. No. P-531.
- 69 Construct asphalt driveway. See sht. 2B-2 detail A.
- 71 Construct asphalt driveway with curb transition. See sht. 2B-2 detail B.
- 72 Construct 14' speed bump. See Std. Drg. No. P-440



KEYMAP



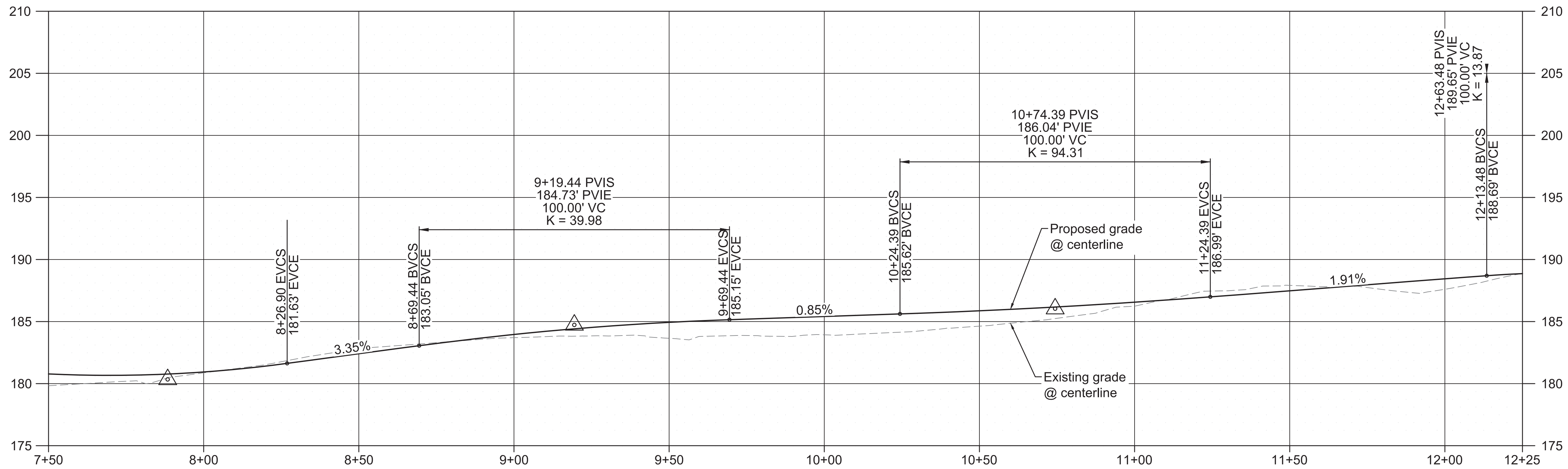
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1/4 SECTION
1 2 12

PROJECT NO.	T00526.D42
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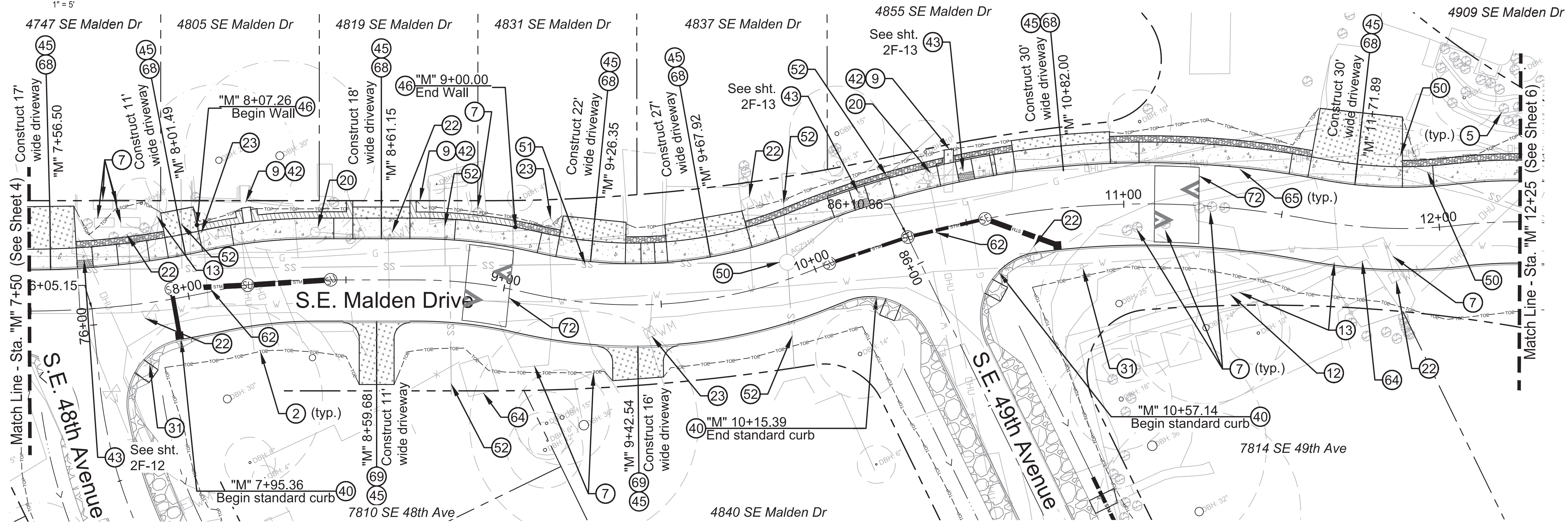
SHEET NO.

5



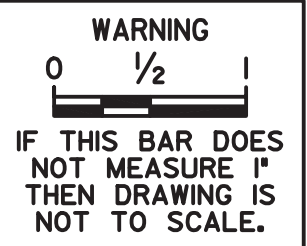
S.E. MALDEN DRIVE - PROFILE VIEW

SCALE: 1" = 20'
1" = 5'



S.E. MALDEN DRIVE - PLAN VIEW

SCALE: 1" = 20'



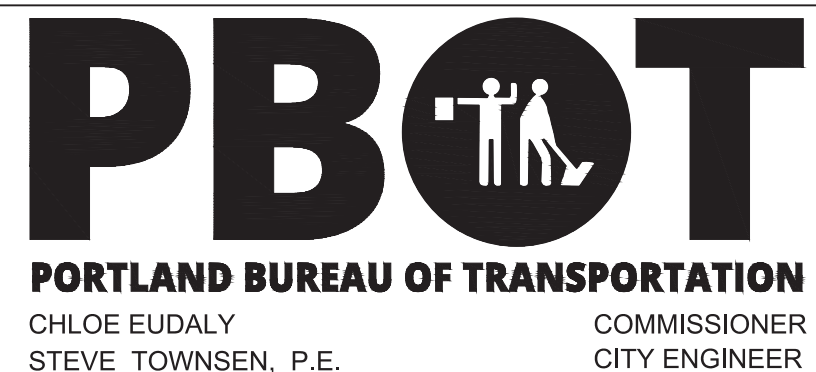
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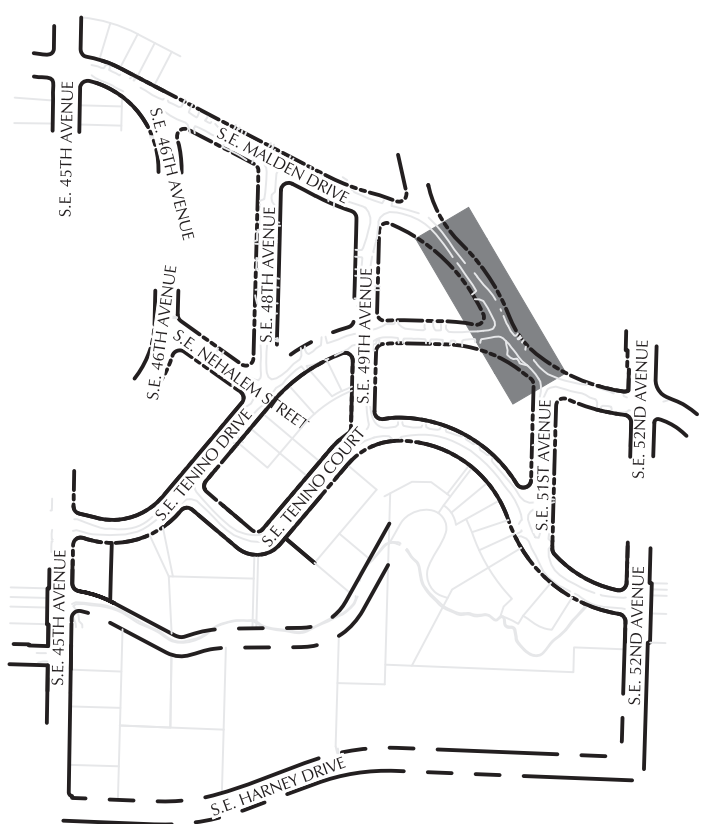
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PROJECT NO.
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SHEET NO.
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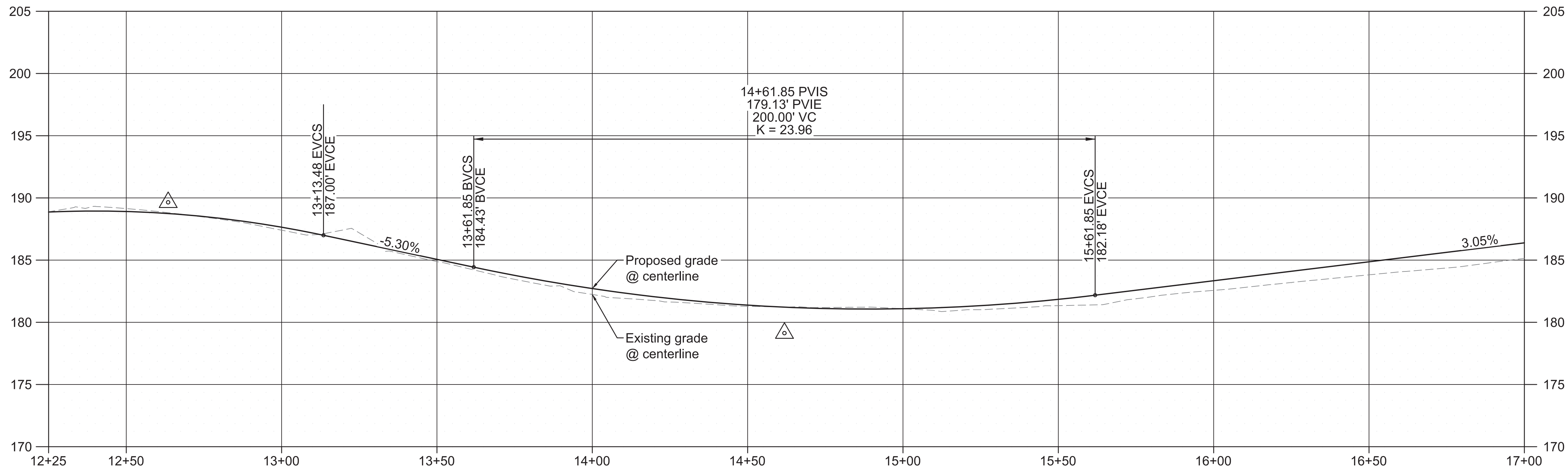
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- 71 Construct asphalt driveway with curb transition. See sht. 2B-2 detail B.
- 72 Construct 14' speed bump. See Std. Drg. No. P-440



KEYMAP

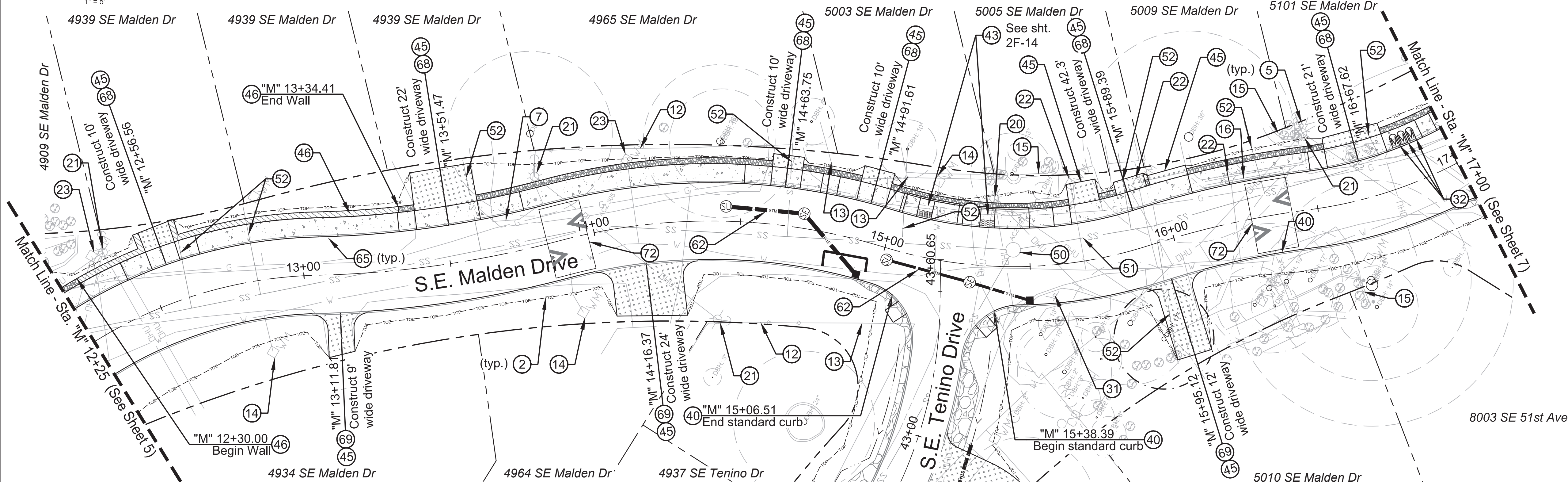


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S.E. MALDEN DRIVE - PROFILE VIEW

SCALE: 1" = 20'
1" = 5'



S.E. MALDEN DRIVE - PLAN VIEW

SCALE: 1" = 20'



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THEN DRAWING IS
NOT TO SCALE.

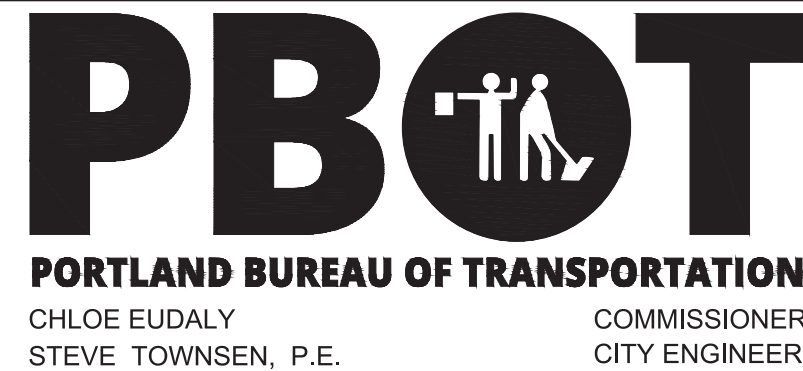
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DESIGNED BY <i>D. Murar / L. Burke</i>	DATE APPROVED
CAD BY <i>R. Cadua</i>	PROGRAM MGR.
CHECKED BY <i>C. Vanderzanden</i>	CONSTR. MGR.

PRELIMINARY
NOT FOR
CONSTRUCTION

APPROVALS:

SUPERVISING ENGINEER	REG. PROF. ENGR. NO. 14956PE
CITY ENGINEER	REG. PROF. ENGR. NO. 51538PE



Errol Heights Street and Storm Improvements

S.E. Malden Drive Street Plan and Profile

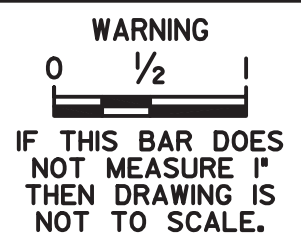
1/4 SECTION
1s2e19
PROJECT NO.
T00526.D42
SHEET NO.
6



SCALE: 1" = 20'
1" = 5'



SCALE: 1" = 20'



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Fax: 503.224.4681
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DESIGNED BY <i>D. Murar / L. Burke</i>	DATE APPROVED
CAD BY <i>R. Cadua</i>	PROGRAM MGR.
CHECKED BY <i>C. Vanderzanden</i>	CONSTR. MGR.

PRELIMINARY
NOT FOR
CONSTRUCTION

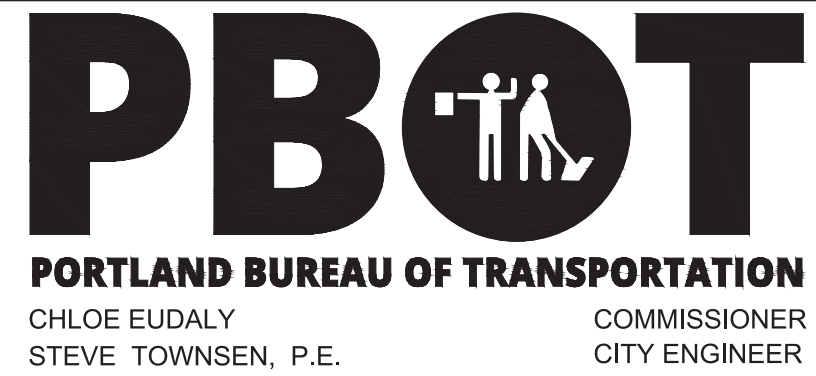
APPROVALS:

SUPERVISING ENGINEER

CITY ENGINEER

REG. PROF. ENGR. NO. 14956PE

REG. PROF. ENGR. NO. 51538PE



Errol Heights Street and Storm Improvements

S.E. Malden Drive Street Plan and Profile

1s2e19

PROJECT NO.

T00526.D42

SHEET NO.

7

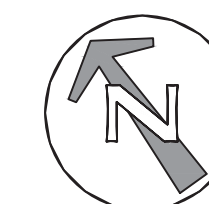
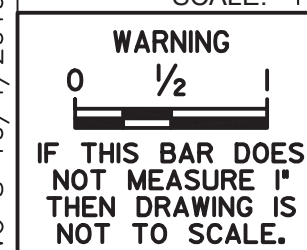


- Construction Notes

- S.E. NEHALEM STREET - PROFILE VIEW

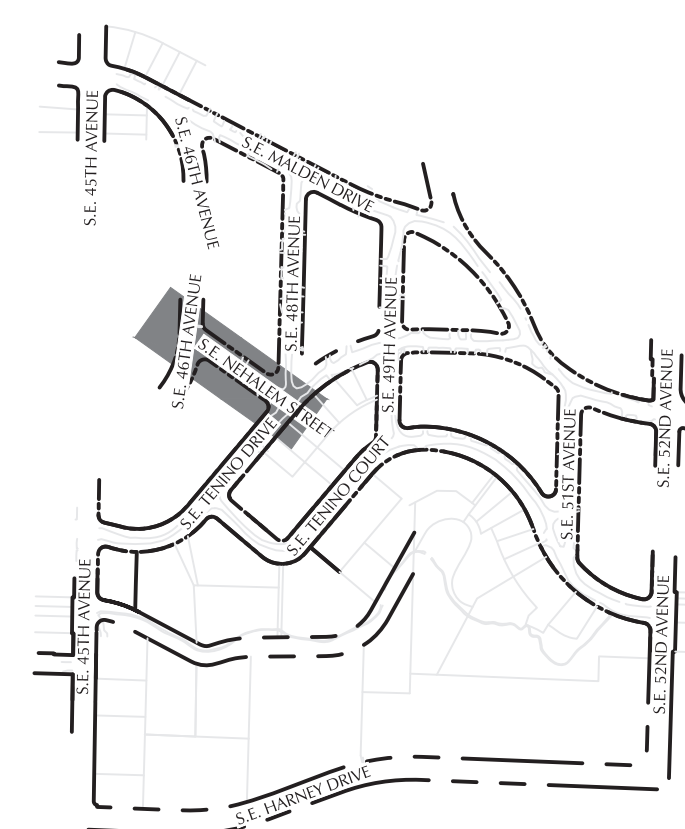
S.E. NEHALEM STREET - PLAN VIEW

SCALE: 1" = 20'



SCALE 1 INCH = 20 FEET

20 0 20 40



KEYMAP

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	1/4 SECTION
	1s2e19
	PROJECT NO.

SHEET NO.

8

[illegible]

DESIGNED BY <i>D. Murar / L. Burke</i>	DATE APPROVED
CAD BY <i>R. Cadua</i>	PROGRAM MGR.
CHECKED BY <i>C. Vanderzanden</i>	CONSTR. MGR.

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CONSTRUCTION

APPROVALS:

SUPERVISING ENGINEER	REG. PROF. ENGR. NO. 14956PE
----------------------	------------------------------

CITY ENGINEER REG. PROF. ENGR. NO. 51538PE



Errol Heights Street and Storm Improvements

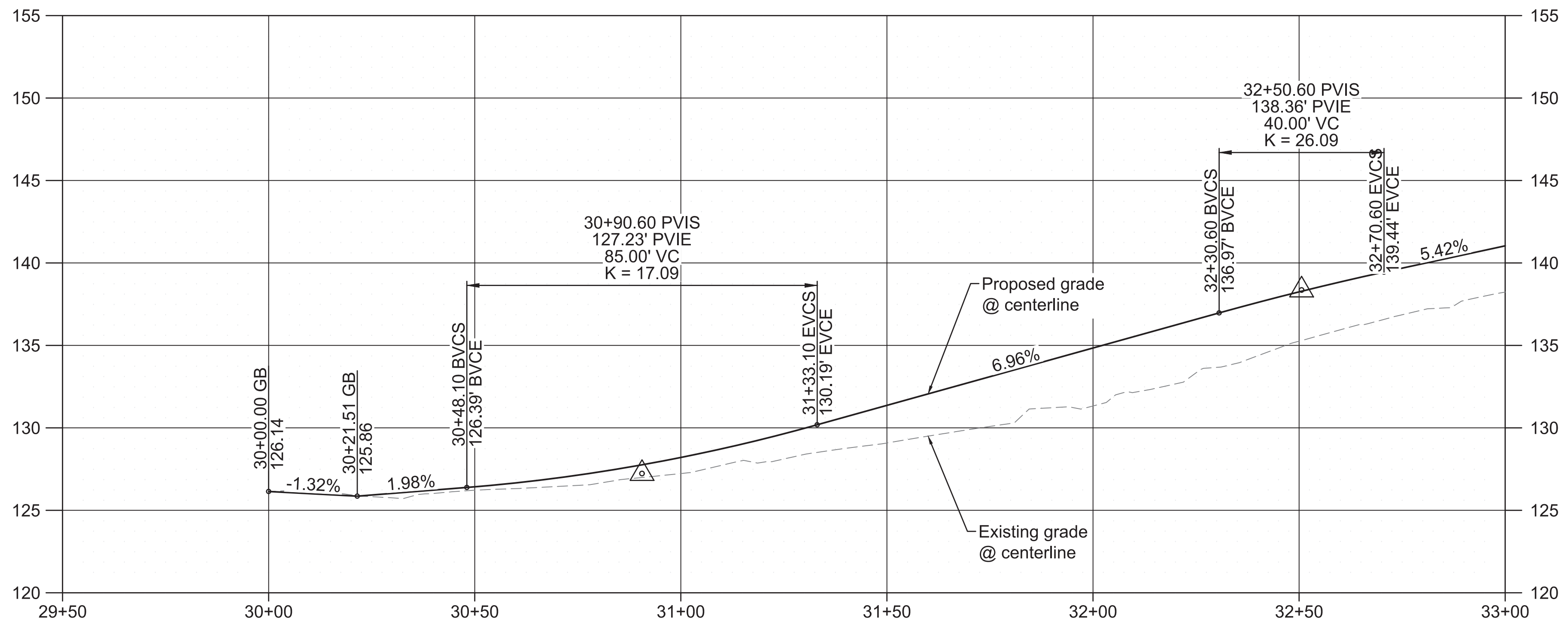
S.E. Nehalem Street Street Plan and Profile

General Notes:

- 1 See Shts. 2H-1 thru 2H-13 for Tree Protection Plans
2 See Shts. D-1 thru D-15 for Drainage Plans.
3 See Shts. S-1 thru S-4 for Signing and Striping Plans.
4 See Shts. L-1 thru L-15 for Landscape Plans.

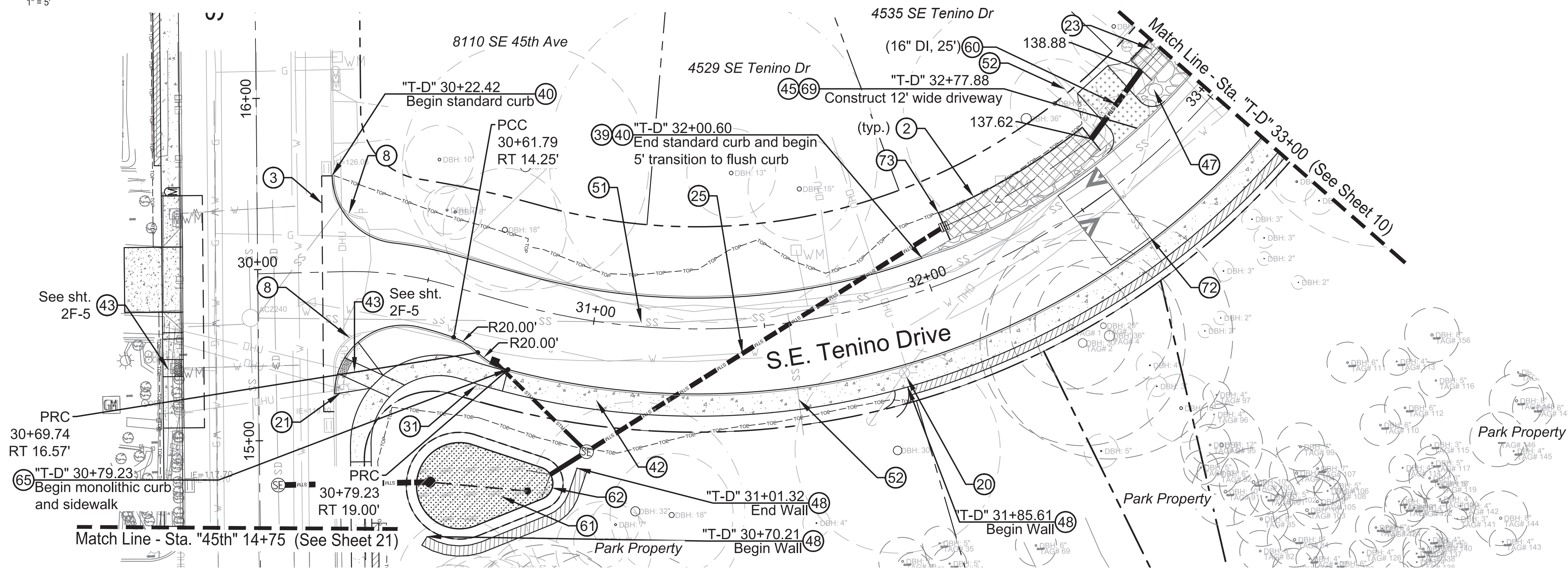
○ Construction Notes

- 2 Limits of cut/fill.
- 3 Sawcut pavement.
- 8 Remove curb.
- 10 Remove pavement.
- 20 Relocate utility pole / guy wire (by others). Coordinate with utility company.
- 21 Utility pole to remain. Coordinate with utility company to hold/adjust pole elevation as necessary for grading.
- 23 Water meter to be relocated by PWB.
- 25 Pothole and field verify location and depth of water line, coordinate with PWB if necessary.
- 31 Relocate sign and post. See Shts S-1 thru S-4.
- 39 Construct flush curb. See Sht. 2B-1 detail D.
- 40 Construct standard curb. See Std. Drg. No. P-540.
- 42 Construct concrete sidewalk. See Std. Drg. No. P-551.
- 43 Construct curb ramp. See Std. Drg. No. P-547 & p-548.
- 45 Construct asphalt driveway connection. See Std. Drg. No. P-536.
- 47 Construct aggregate shoulder - 6 in. thick.
- 48 Construct gabion cut retaining wall. See Sht. 2B-1 detail B.
- 51 Protect sanitary sewer main.
- 52 Protect sanitary service lateral.
- 60 Install culvert. Length and size as shown.
- 61 Construct lined vegetated basin. See D sheets for additional information.
- 62 Storm Facility. See D sheets for additional information.
- 65 Construct monolithic concrete curb and sidewalk. See Std. Drg. No. P-551.
- 66 Construct end of sidewalk transition. See Std. Drg. No. RD754.
- 69 Construct asphalt driveway. See sht. 2B-2 detail A.
- 72 Construct 14' speed bump. See Std. Drg. No. P-440
- 73 Construct ditch armoring. See sht. 2B-2 detail D.



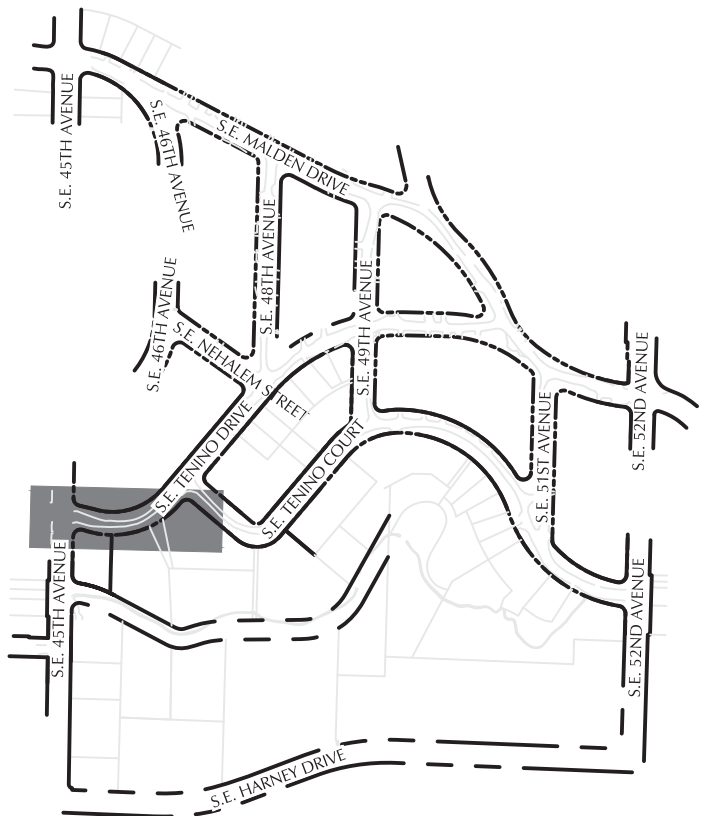
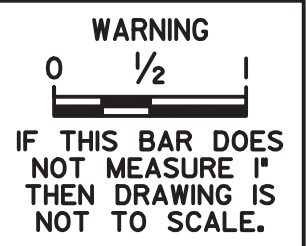
S.E. TENINO DRIVE - PROFILE VIEW

SCALE: 1" = 20'
1" = 5'



S.E. TENINO DRIVE - PLAN VIEW

SCALE: 1" = 20'



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Errol Heights Street and Storm Improvements

S.E. Tenino Drive Street Plan and Profile

1/4 SECTION
1s2e19
PROJECT NO.
T00526.D42
SHEET NO.

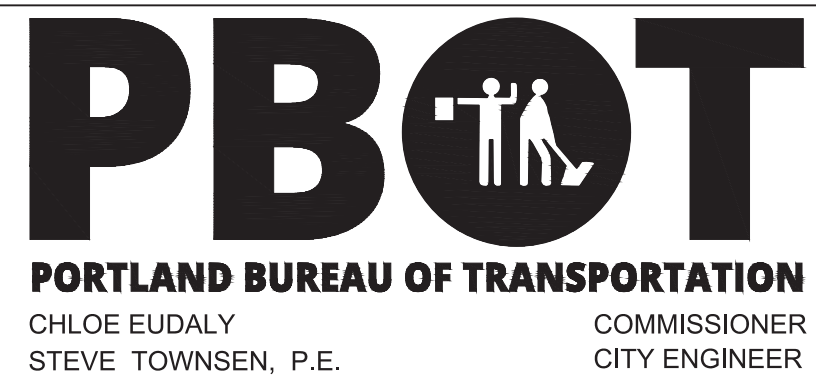
9

							DESIGNED BY <i>D. Murar / L. Burke</i>	DATE APPROVED
							CAD BY <i>R. Cadua</i>	PROGRAM MGR.
							CHECKED BY <i>C. Vanderzanden</i>	CONSTR. MGR.
NO.	DATE	DESCRIPTION					APPD.	
REVISION								

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CONSTRUCTION

APPROVALS:

SUPERVISING ENGINEER	REG. PROF. ENGR. NO. 14956PE
CITY ENGINEER	REG. PROF. ENGR. NO. 51538PE

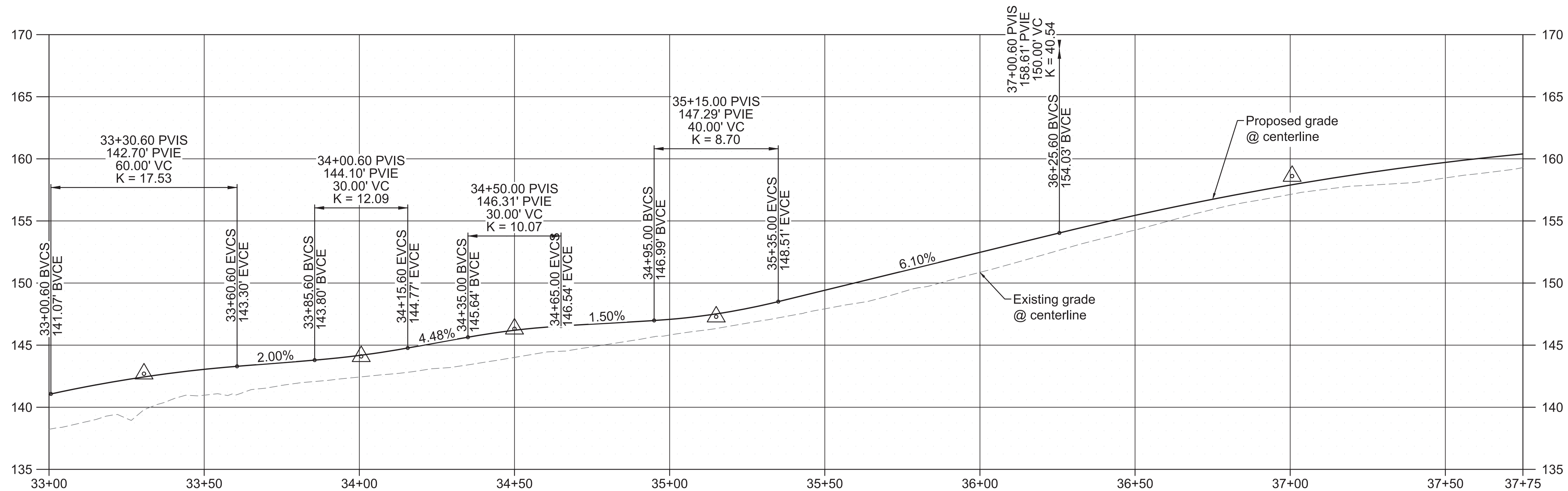


*Errol Heights
Street and Storm Improvements*

S.E. Tenino Drive Street Plan and Profile

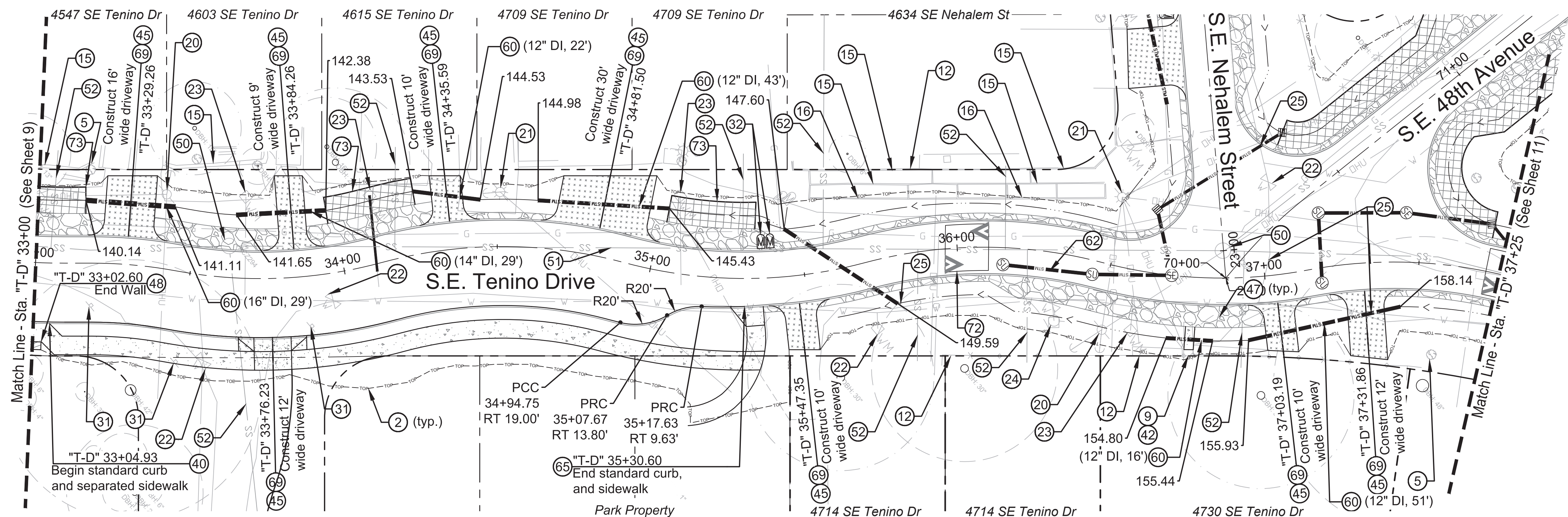
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1s2e19
PROJECT NO.
T00526.D42
SHEET NO.

9



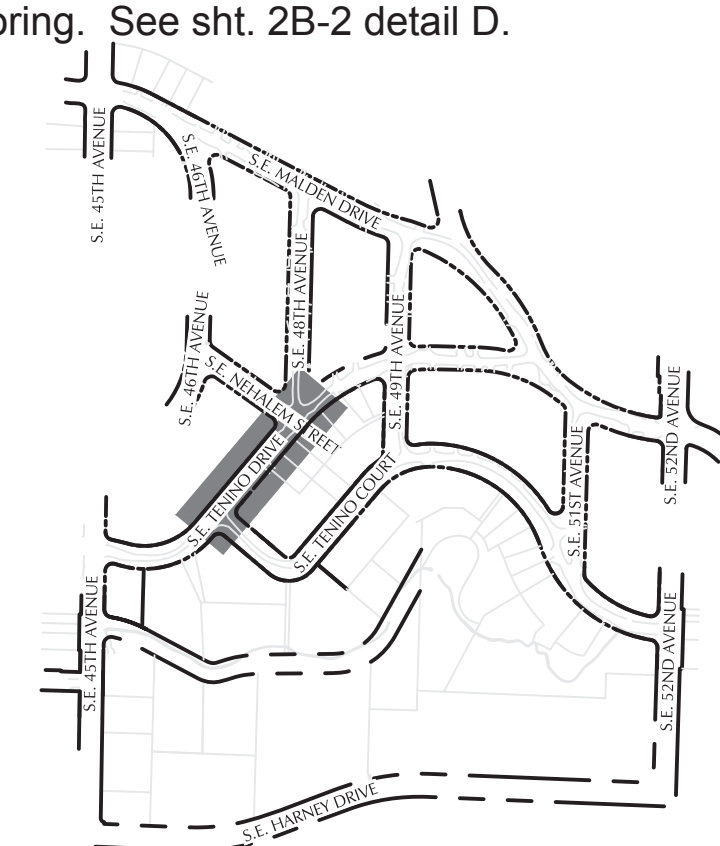
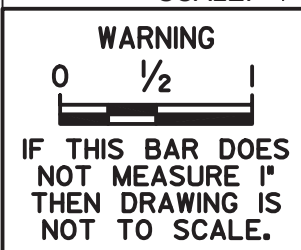
S.E. TENINO DRIVE - PROFILE VIEW

SCALE: 1" = 20'
1" = 5'



S.E. TENINO DRIVE - PLAN VIEW

SCALE: 1" = 20'



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Errol Heights Street and Storm Improvements

S.E. Tenino Drive Street Plan and Profile

1/4 SECTION

1s2e19

PROJECT NO.
T00526.D4.

SHEET NO.

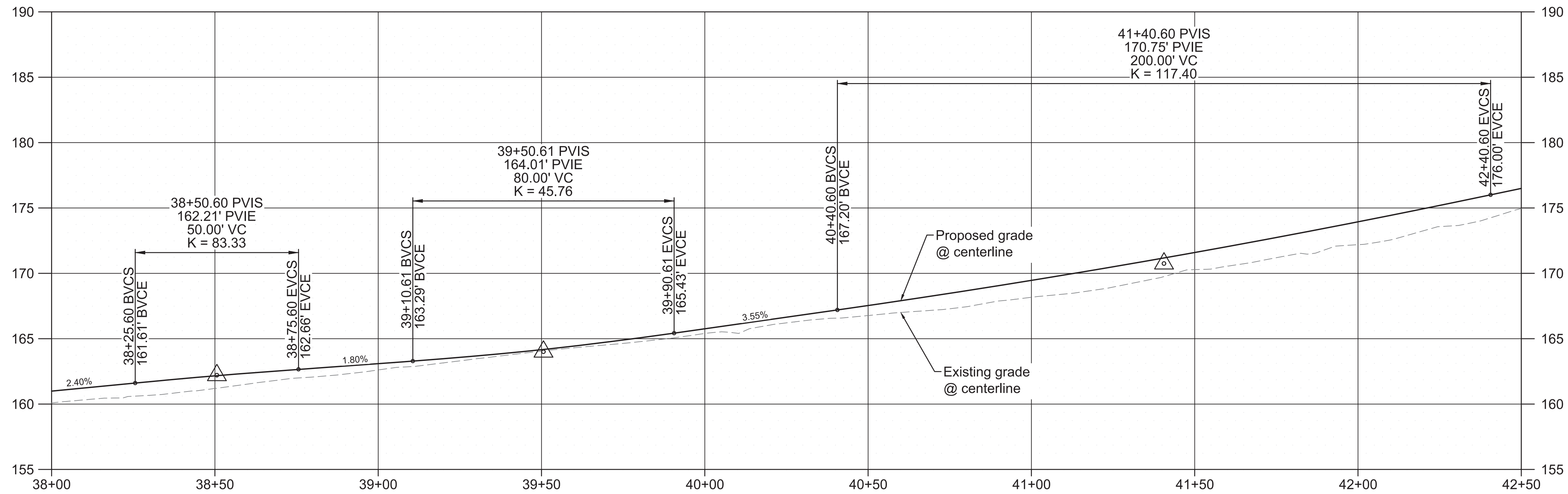
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General Notes:

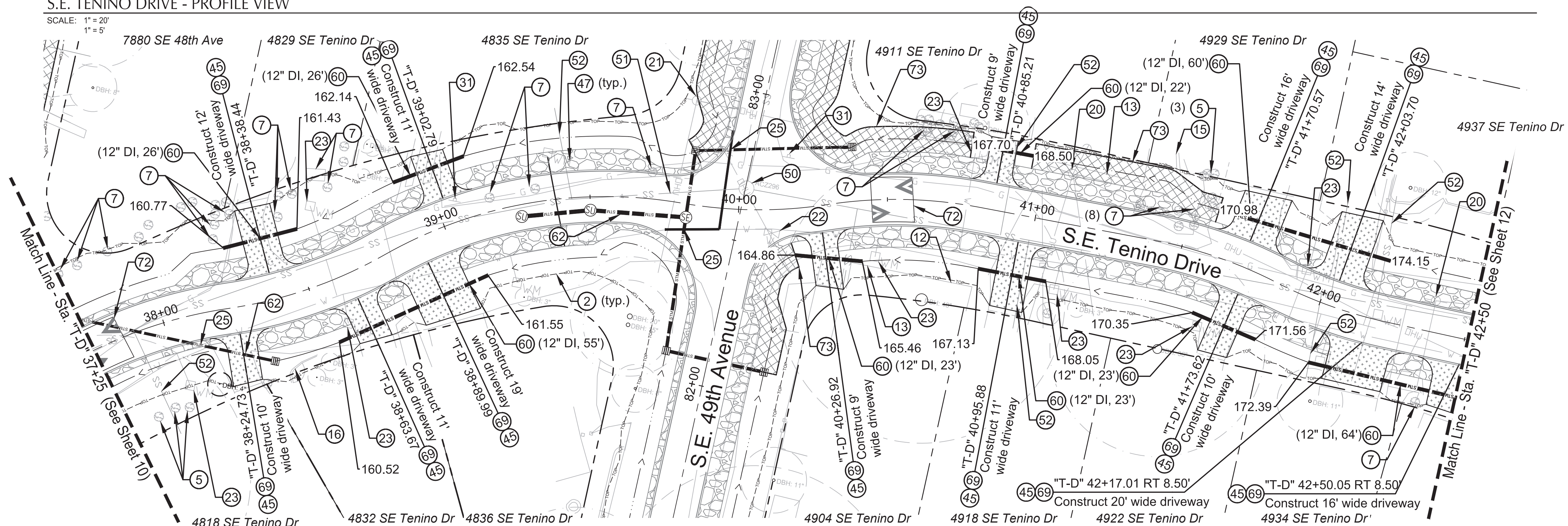
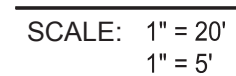
- 1 See Shts. 2H-1 thru 2H-13 for Tree Protection Plans
- 2 See Shts. D-1 thru D-15 for Drainage Plans.
- 3 See Shts. S-1 thru S-4 for Signing and Striping Plans.
- 4 See Shts. L-1 thru L-15 for Landscape Plans.

○ Construction Notes

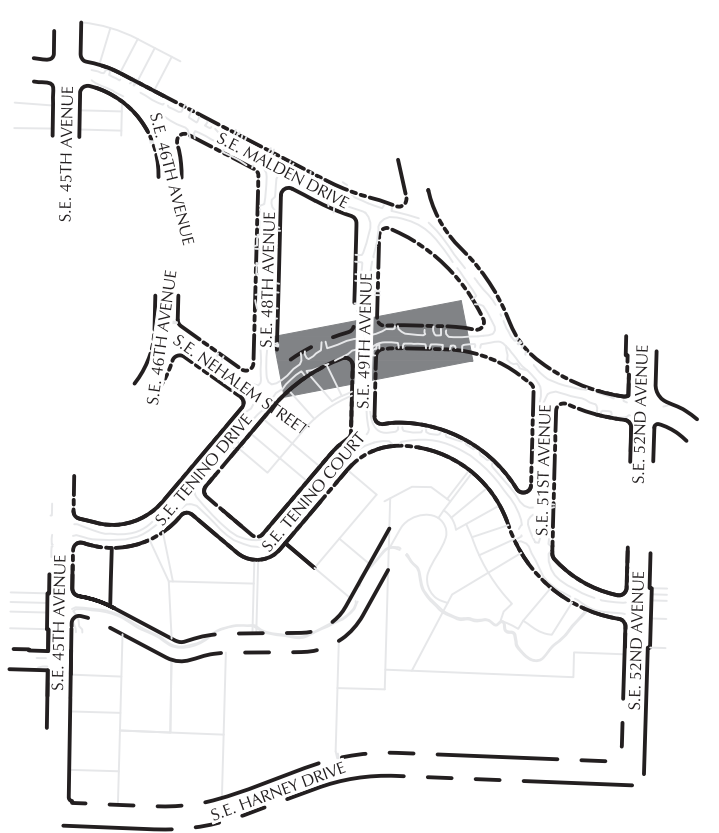
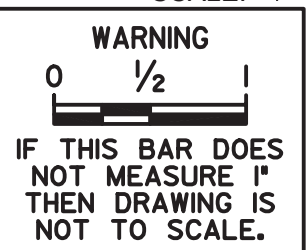
- 2 Limits of cut/fill.
- 5 Protect brush, hedge, other vegetation, or landscaping.
- 9 Remove sidewalk.
- 12 Protect fence.
- 15 Protect wall.
- 16 Remove wall.
- 20 Relocate utility pole / guy wire (by others). Coordinate with utility company.
- 21 Utility pole to remain. Coordinate with utility company to hold/adjust pole elevation as necessary for grading.
- 22 Adjust box to finished grade.
- 23 Water meter to be relocated by PWB.
- 24 Fire hydrant to be relocated by PWB.
- 25 Pothole and field verify location and depth of water line, coordinate with PWB if necessary.
- 31 Relocate sign and post. See Shts S-1 thru S-4.
- 32 Relocate mailbox. See Std. Drg. No. RD100 and RD101.
- 42 Construct concrete sidewalk. See Std. Drg. No. P-551.
- 45 Construct asphalt driveway connection. See Std. Drg. No. P-536.
- 47 Construct aggregate shoulder - 6 in. thick.
- 48 Construct gabion cut retaining wall. See Sht. 2B-1 detail B.
- 50 Adjust manhole to finished grade.
- 51 Protect sanitary sewer main.
- 52 Protect sanitary service lateral.
- 60 Install culvert. Length and size as shown.
- 62 Storm Facility. See D sheets for additional information.
- 67 Construct typical separated concrete driveway. See Std. Drg. No. P-528.
- 69 Construct asphalt driveway. See sht. 2B-2 detail A.
- 72 Construct 14' speed bump. See Std. Drg. No. P-440
- 73 Construct ditch armoring. See sht. 2B-2 detail D.



S.E. TENINO DRIVE - PROFILE VIEW



S.E. TENINO DRIVE - PLAN VIEW



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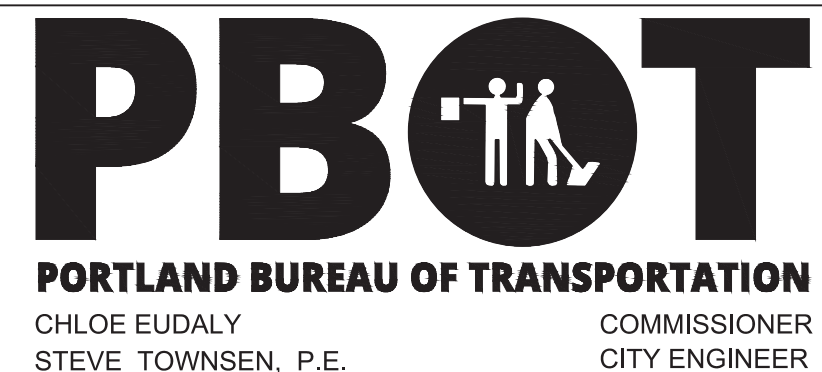
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DESIGNED BY <i>D. Murar / L. Burke</i>	DATE APPROVED
CAD BY <i>R. Cadua</i>	PROGRAM MGR.
CHECKED BY <i>C. Vanderzanden</i>	CONSTR. MGR.

PRELIMINARY
NOT FOR
CONSTRUCTION

APPROVALS:

SUPERVISING ENGINEER	REG. PROF. ENGR. NO. 14956PE
CITY ENGINEER	REG. PROF. ENGR. NO. 51538PE



*Errol Heights
Street and Storm Improvements*

S.E. Tenino Drive Street Plan and Profile

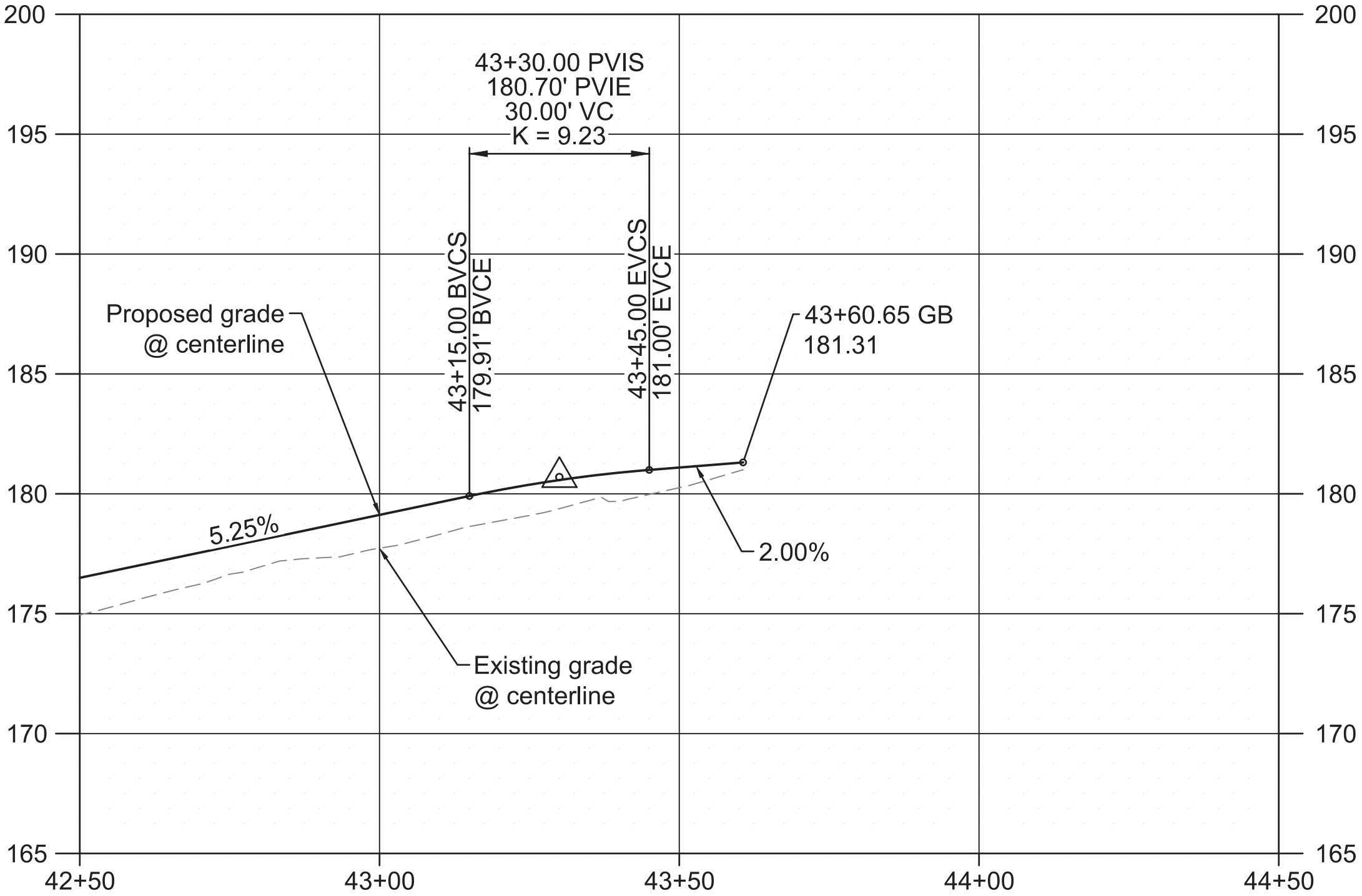
1/4 SECTION
1s2e19
PROJECT NO.
T00526.D42
SHEET NO.
11

General Notes:

- 1 See Shts. 2H-1 thru 2H-13 for Tree Protection Plans.
2 See Shts. D-1 thru D-15 for Drainage Plans.
3 See Shts. S-1 thru S-4 for Signing and Striping Plans.
4 See Shts. L-1 thru L-15 for Landscape Plans.

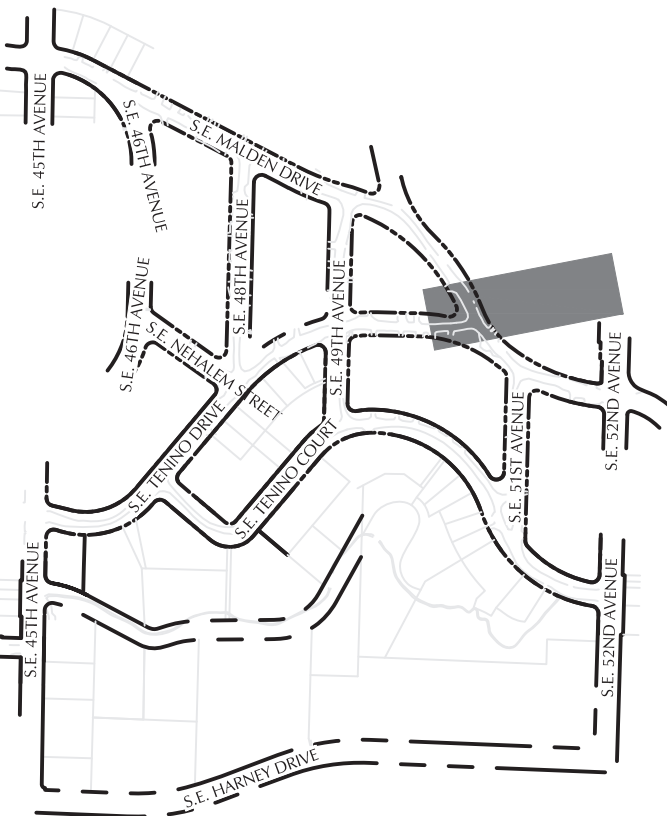
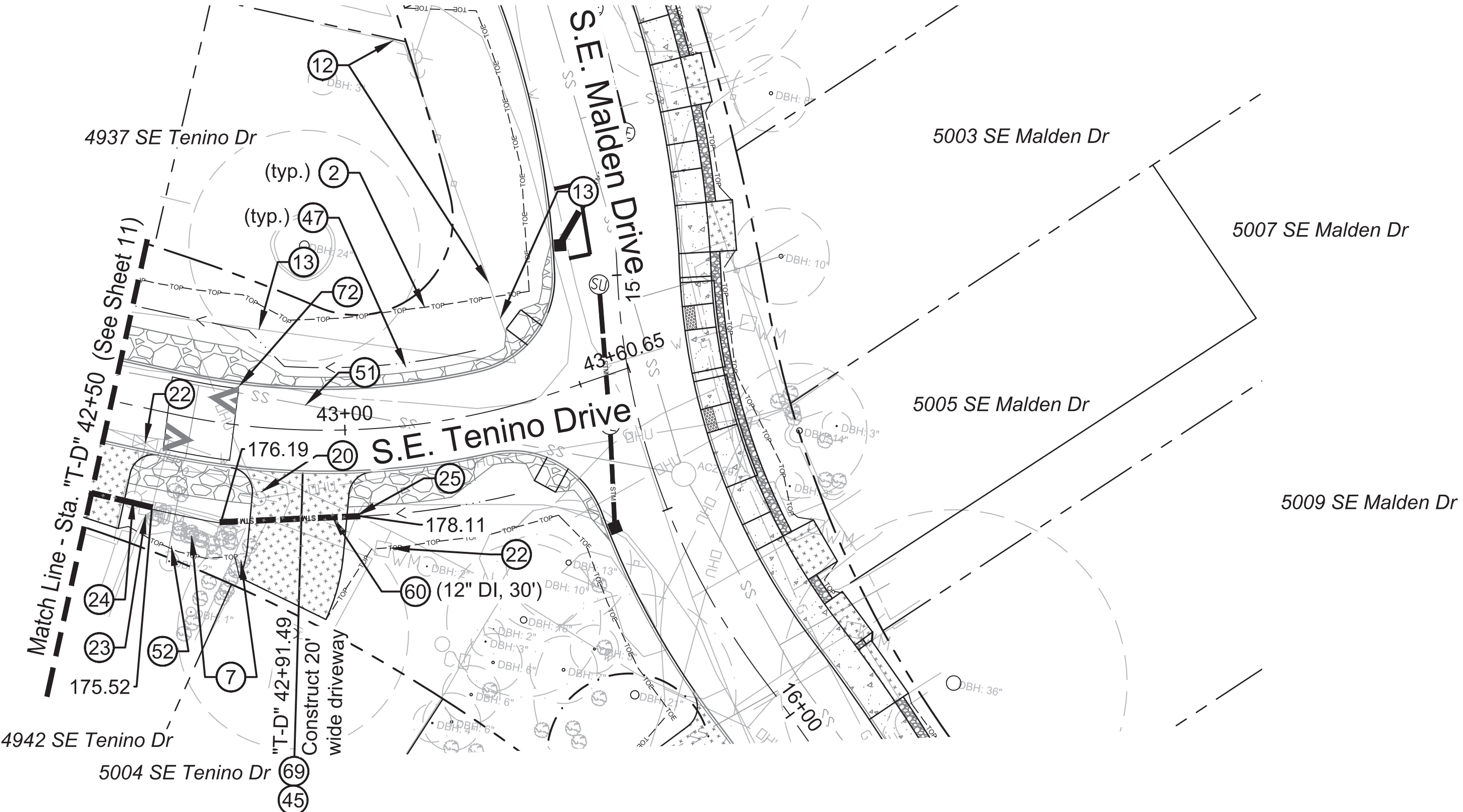
○ Construction Notes

- 2 Limits of cut/fill.
- 7 Remove brush, hedge, other vegetation, or landscaping.
- 12 Protect fence.
- 13 Remove fence and salvage to owner.
- 20 Relocate utility pole / guy wire (by others). Coordinate with utility company.
- 22 Adjust box to finished grade.
- 23 Water meter to be relocated by PWB.
- 24 Fire hydrant to be relocated by PWB.
- 25 Pothole and field verify location and depth of water line, coordinate with PWB if necessary.
- 45 Construct asphalt driveway connection. See Std. Drg. No. P-536.
- 47 Construct aggregate shoulder - 6 in. thick.
- 51 Protect sanitary sewer main.
- 52 Protect sanitary service lateral.
- 60 Install culvert. Length and size as shown.
- 69 Construct asphalt driveway. See sht. 2B-2 detail A.
- 72 Construct 14' speed bump. See Std. Drg. No. P-440



S.E. TENINO DRIVE - PROFILE VIEW

SCALE: 1" = 20'
1" = 5'



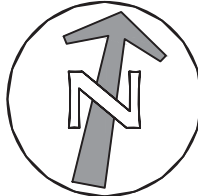
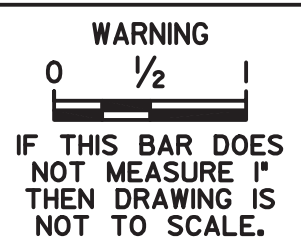
KEYMAP



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S.E. TENINO DRIVE - PLAN VIEW

SCALE: 1" = 20'



SCALE 1 INCH = 20 FEET



20 0 20 40

										DESIGNED BY	DATE APPROVED
										D. Murar / L. Burke	
										CAD BY	PROGRAM MGR.
										R. Cadua	
										CHECKED BY	CONSTR. MGR.
										C. Vanderzanden	
NO.	DATE	DESCRIPTION							APPD.		
REVISION											

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CONSTRUCTION

APPROVALS

SUPERVISING ENGINEER REG. PROF. ENGR. NO. 14956PE

CITY ENGINEER REG. PROF. ENGR. NO. 51538PE



Errol Heights Street and Storm Improvements

S.E. Tenino Drive Street Plan and Profile

1/4 SECTION

1s2e19

PROJECT NO.
T00526.D42

SHEET NO.

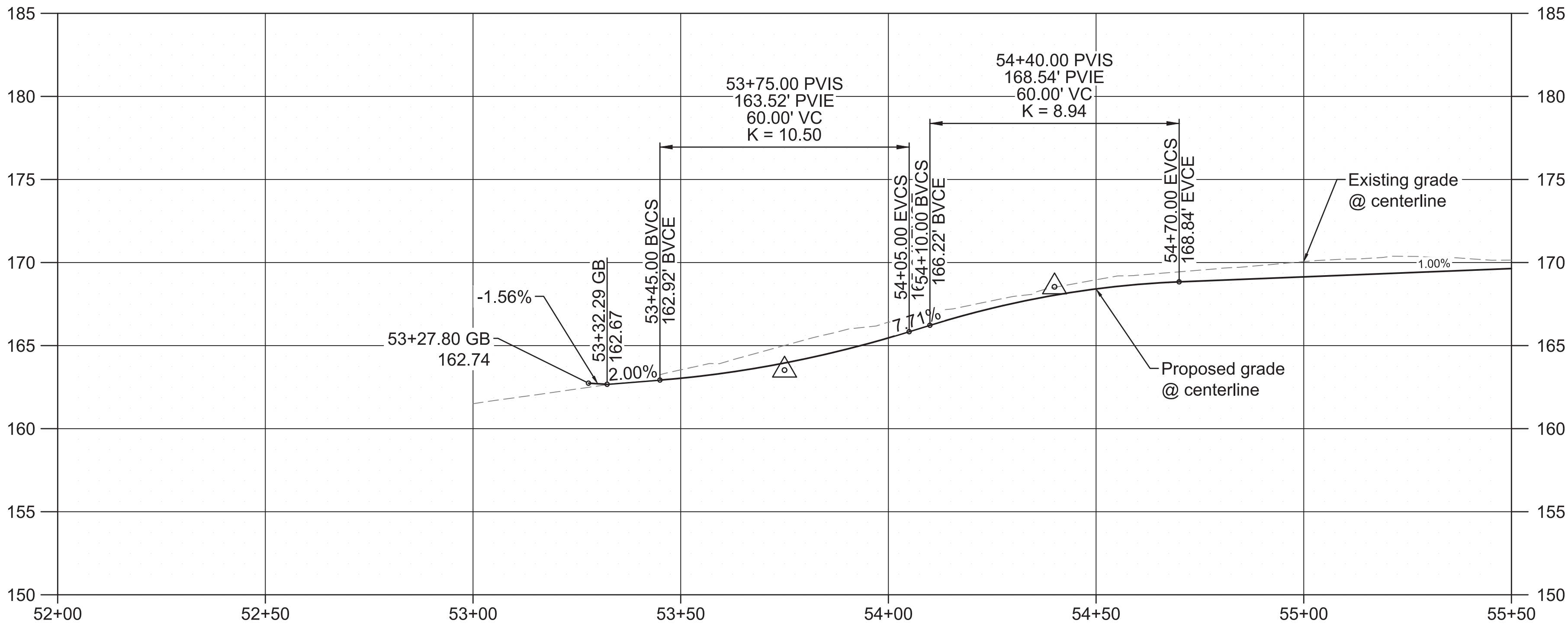
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General Notes:

- 1 See Shts. 2H-1 thru 2H-13 for Tree Protection Plans
- 2 See Shts. D-1 thru D-15 for Drainage Plans.
- 3 See Shts. S-1 thru S-4 for Signing and Striping Plans.
- 4 See Shts. L-1 thru L-15 for Landscape Plans.

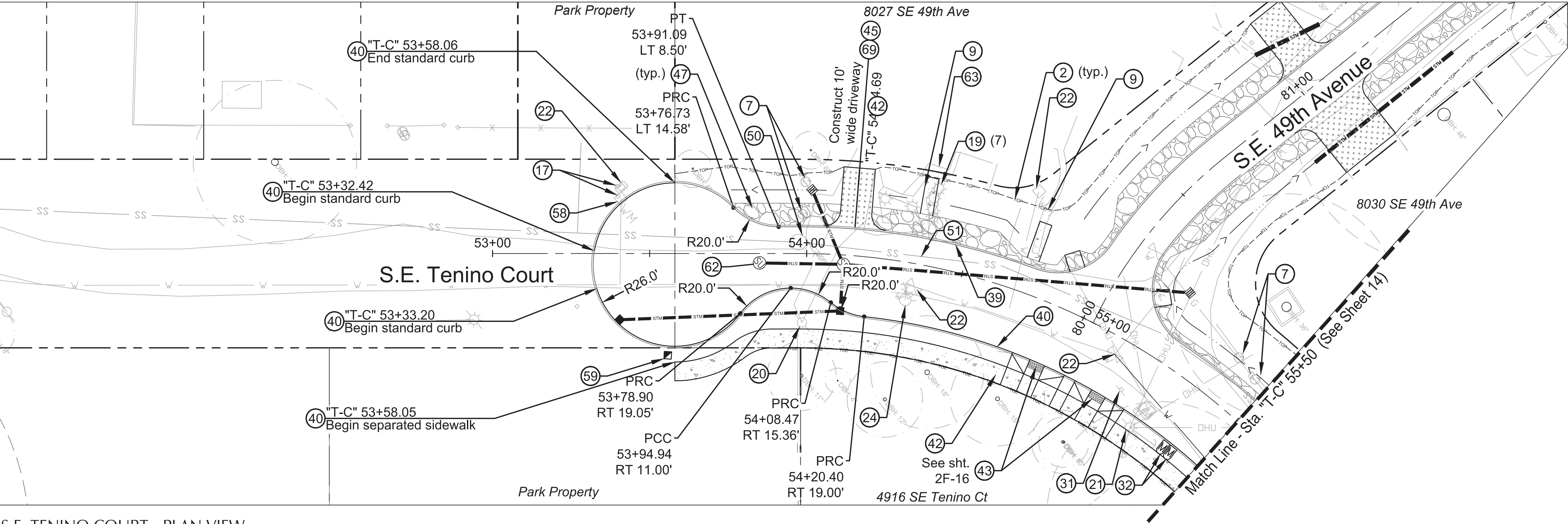
Construction Notes

- 2 Limits of cut/fill.
- 7 Remove brush, hedge, other vegetation, or landscaping.
- 9 Remove sidewalk.
- 17 Remove post.
- 19 Remove light pole.
- 20 Relocate utility pole / guy wire (by others). Coodinate with utility company.
- 22 Adjust box to finished grade.
- 23 Water meter to be relocated by PWB.
- 24 Fire hydrant to be relocated by PWB.
- 31 Relocate sign and post. See Shts S-1 thru S-4.
- 32 Relocate mailbox. See Std. Drg. No. RD100 and RD101.
- 39 Construct flush curb. See Sht. 2B-1 detail D.
- 40 Construct standard curb. See Std. Drg. No. P-540.
- 42 Construct concrete sidewalk. See Std. Drg. No. P-551.
- 45 Construct asphalt driveway connection. See Std. Drg. No. P-536.
- 47 Construct aggregate shoulder - 6 in. thick.
- 50 Adjust manhole to finished grade.
- 51 Protect sanitary sewer main.
- 58 Remove water meter.
- 59 Install 2" water meter.
- 60 Install culvert. Length and size as shown.
- 62 Storm Facility. See D sheets for additional information.
- 63 Protect structure.
- 69 Construct asphalt driveway. See sht. 2B-2 detail A.



S.E. TENINO COURT - PROFILE VIEW

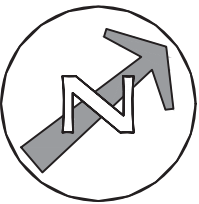
SCALE: 1" = 20'
1" = 5'



S.E. TENINO COURT - PLAN VIEW

SCALE: 1" = 20'

WARNING
0 1/2 1
IF THIS BAR DOES
NOT MEASURE 1"
THEN DRAWING IS
NOT TO SCALE.



SCALE
1 INCH = 20 FEET
20 0 20 40



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CAD BY
R. Cadua
CHECKED BY
C. Vanderzanden

DATE APPROVED
PROGRAM MGR.
CONSTR. MGR.

PRELIMINARY
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CONSTRUCTION

APPROVALS:

SUPERVISING ENGINEER REG. PROF. ENGR. NO. 14956PE

CITY ENGINEER REG. PROF. ENGR. NO. 51538PE

PBOT
PORTLAND BUREAU OF TRANSPORTATION
CHLOE EUDALY
STEVE TOWNSEN, P.E.
COMMISSIONER
CITY ENGINEER



Errol Heights
Street and Storm Improvements

S.E. Tenino Court
Street Plan and Profile

1/4 SECTION
1s2e19
PROJECT NO.
T00526.D42
SHEET NO.

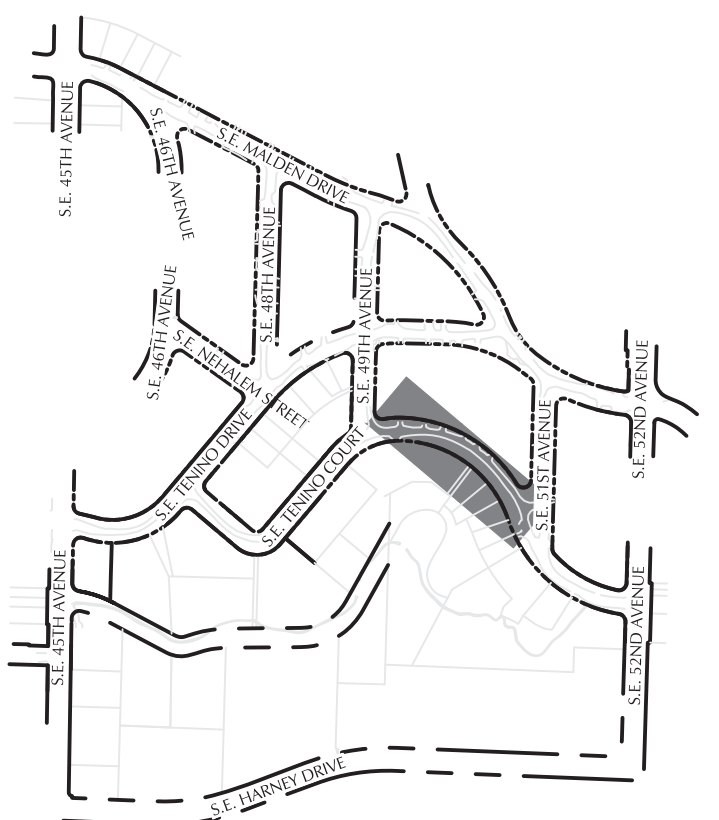
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General Notes:

- 1 See Shts. 2H-1 thru 2H-13 for Tree Protection Plans
- 2 See Shts. D-1 thru D-15 for Drainage Plans.
- 3 See Shts. S-1 thru S-4 for Signing and Striping Plans.
- 4 See Shts. L-1 thru L-15 for Landscape Plans.

○ Construction Notes

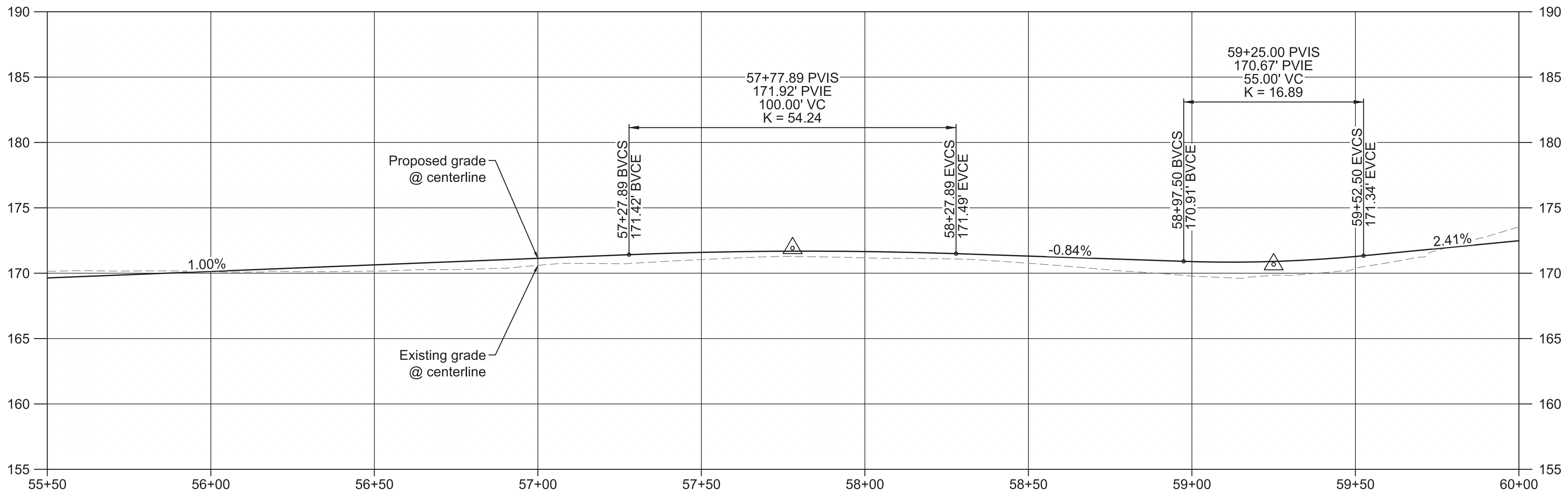
- 2 Limits of cut/fill.
- 7 Remove brush, hedge, other vegetation, or landscaping.
- 12 Protect fence.
- 13 Remove fence and salvage to owner.
- 16 Remove wall.
- 20 Relocate utility pole / guy wire (by others). Coordinate with utility company.
- 23 Water meter to be relocated by PWB.
- 27 Coordinate relocation with NW Natural Gas as necessary.
- 31 Relocate sign and post. See Shts S-1 thru S-4.
- 38 Construct gabion fill retaining wall. See Sht. 2B-1 detail C.
- 40 Construct standard curb. See Std. Drg. No. P-540.
- 42 Construct concrete sidewalk. See Std. Drg. No. P-551.
- 43 Construct curb ramp. See Std. Drg. No. P-547 & p-548.
- 44 Construct concrete driveway connection. See Std. Drg. No. P-536.
- 45 Construct asphalt driveway connection. See Std. Drg. No. P-536.
- 47 Construct aggregate shoulder - 6 in. thick.
- 50 Adjust manhole to finished grade.
- 51 Protect sanitary sewer main.
- 52 Protect sanitary service lateral.
- 60 Install culvert. Length and size as shown.
- 62 Storm Facility. See D sheets for additional information.
- 64 Remove structure.
- 65 Construct monolithic concrete curb and sidewalk. See Std. Drg. No. P-551.
- 67 Construct typical separated concrete driveway. See Std. Drg. No. P-528.
- 68 Construct fully lowered concrete driveway. See Std. Drg. No. P-531.
- 69 Construct asphalt driveway. See sht. 2B-2 detail A.
- 73 Construct ditch amoring. See sht. 2B-2 detail D.



KEYMAP

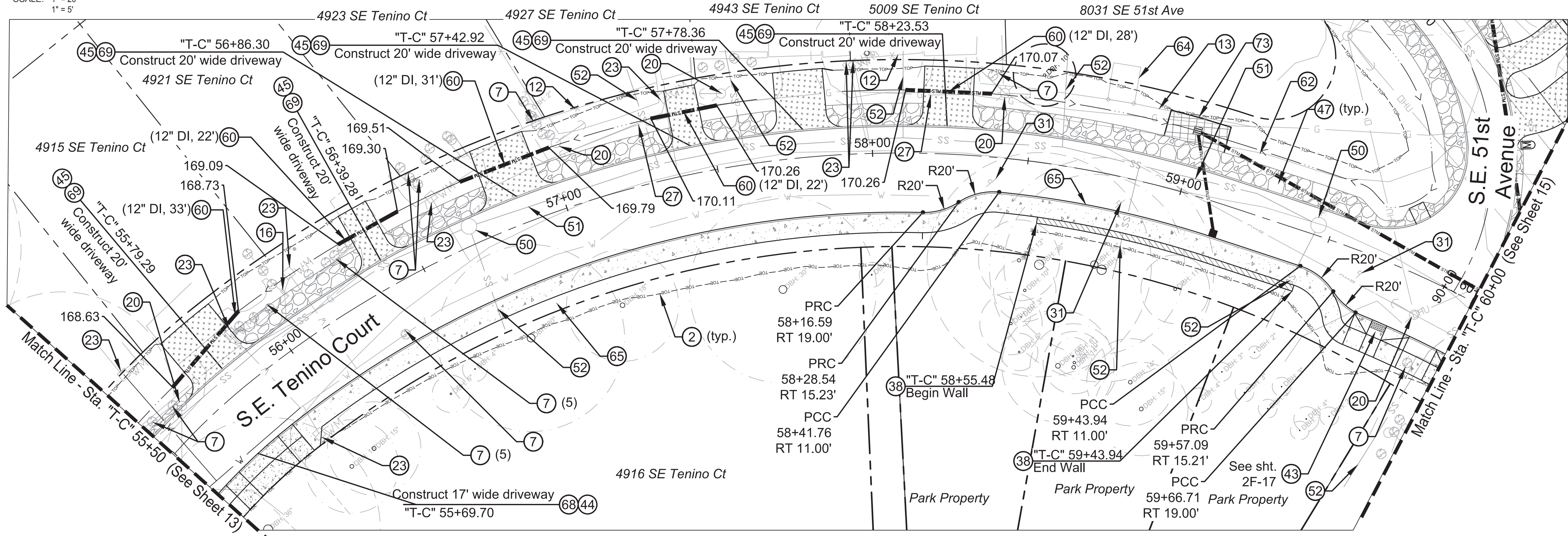


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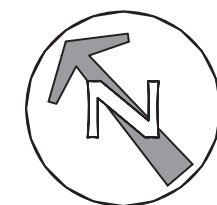
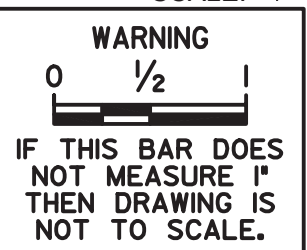
S.E. TENINO COURT - PROFILE VIEW

SCALE: 1" = 20'
1" = 5'



S.E. TENINO COURT - PLAN VIEW

SCALE: 1" = 20'



SCALE 1 INCH = 20 FEET

20 0 20 40

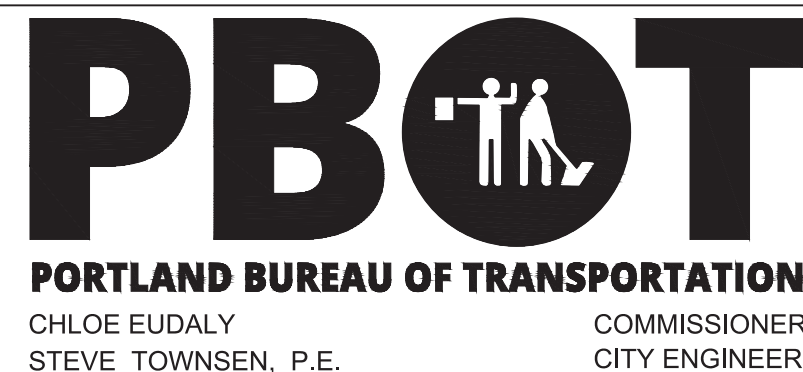
DESIGNED BY <i>D. Murar / L. Burke</i>	DATE APPROVED
CAD BY <i>R. Cadua</i>	PROGRAM MGR.
CHECKED BY <i>C. Vanderzanden</i>	CONSTR. MGR.

PRELIMINARY
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CONSTRUCTION

APPROVALS:

SUPERVISING ENGINEER REG. PROF. ENGR. NO. 14956PE

CITY ENGINEER REG. PROF. ENGR. NO. 51538PE

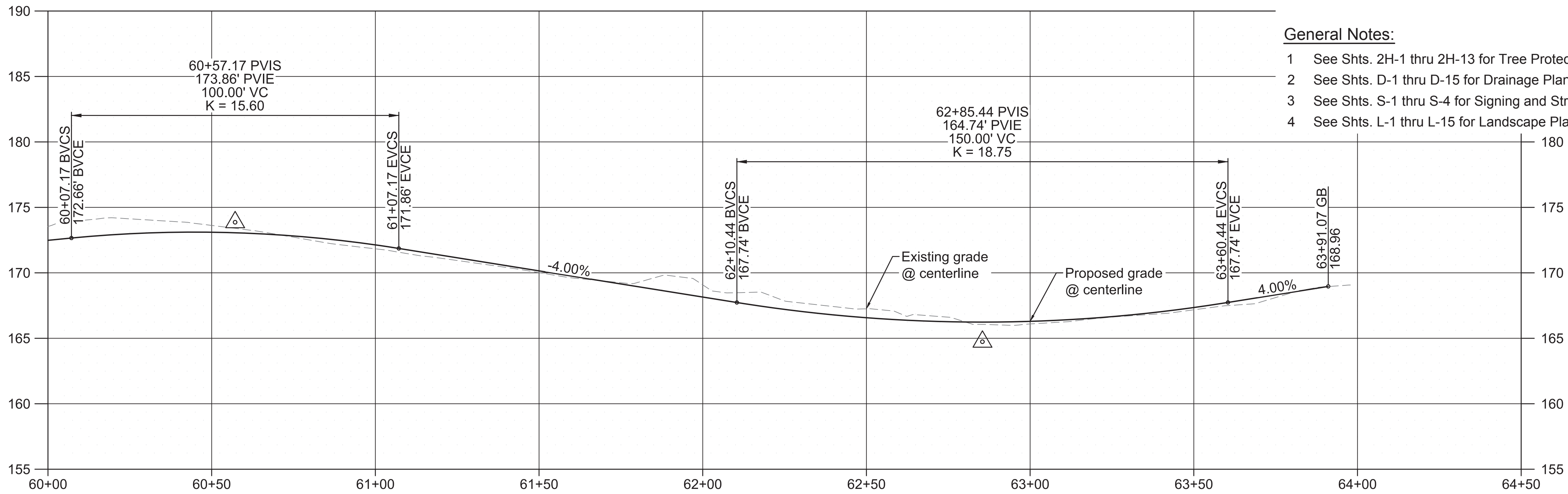


Errol Heights Street and Storm Improvements

S.E. Tenino Court Street Plan and Profile

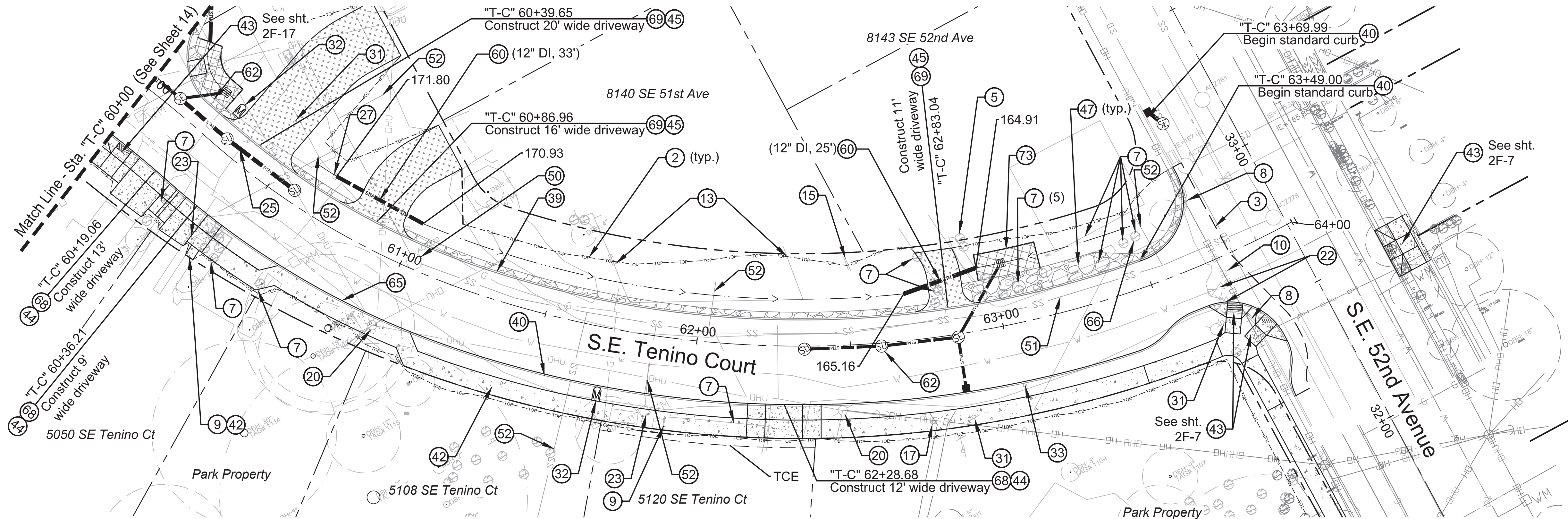
1/4 SECTION
1s2e19
PROJECT NO.
T00526.D42
SHEET NO.

4



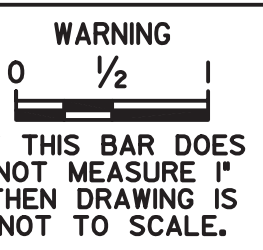
S.E. TENINO COURT - PROFILE VIEW

SCALE: 1" = 20'
1" = 5'



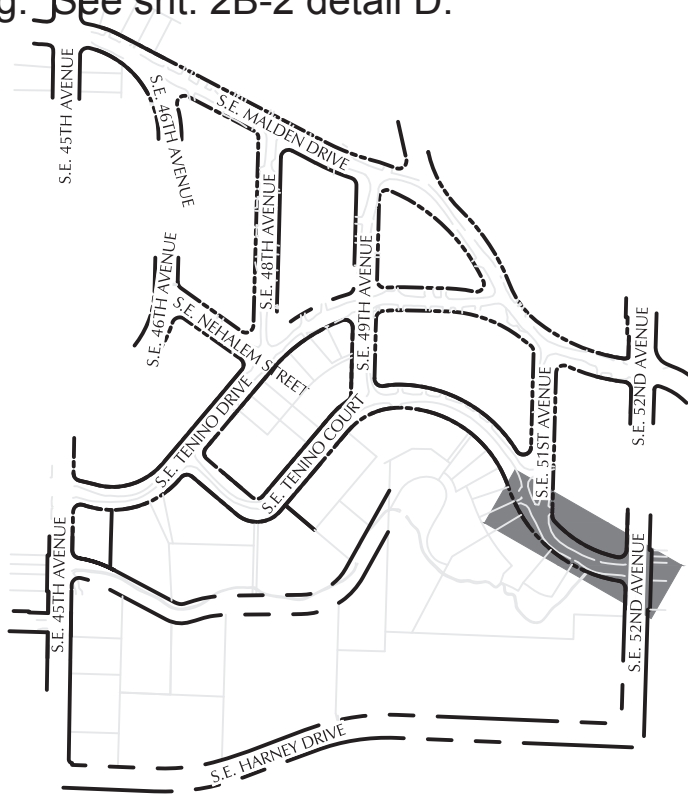
S.E. TENINO COURT - PLAN VIEW

SCALE: 1" = 20'

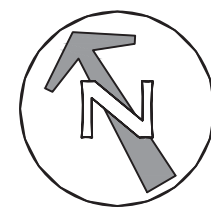


Construction Notes

- Limits of cut/fill.
- Sawcut pavement.
- Protect brush, hedge, other vegetation, or landscaping.
- Remove brush, hedge, other vegetation, or landscaping.
- Remove curb.
- Remove sidewalk.
- Remove pavement.
- Remove fence and salvage to owner.
- Protect wall.
- Remove post.
- Relocate utility pole / guy wire (by others). Coordinate with utility company.
- Adjust box to finished grade.
- Water meter to be relocated by PWB.
- Pothole and field verify location and depth of water line, coordinate with PWB if necessary.
- Coordinate relocation with NW Natural Gas as necessary.
- Relocate sign and post. See Shts S-1 thru S-4.
- Relocate mailbox. See Std. Drg. No. RD100 and RD101.
- Decommission monitoring well.
- Construct flush curb. See Sht. 2B-1 detail D.
- Construct standard curb. See Std. Drg. No. P-540.
- Construct concrete sidewalk. See Std. Drg. No. P-551.
- Construct curb ramp. See Std. Drg. No. P-547 & p-548.
- Construct concrete driveway connection. See Std. Drg. No. P-536.
- Construct asphalt driveway connection. See Std. Drg. No. P-536.
- Construct aggregate shoulder - 6 in. thick.
- Adjust manhole to finished grade.
- Protect sanitary sewer main.
- Protect sanitary service lateral.
- Install culvert. Length and size as shown.
- Storm Facility. See D sheets for additional information.
- Construct monolithic concrete curb and sidewalk. See Std. Drg. No. P-551.
- Construct end of sidewalk transition. See Std. Drg. No. RD754.
- Construct typical separated concrete driveway. See Std. Drg. No. P-528.
- Construct fully lowered concrete driveway. See Std. Drg. No. P-531.
- Construct asphalt driveway. See sht. 2B-2 detail A.
- Construct ditch amoring. See sht. 2B-2 detail D.



KEYMAP



111 SW Fifth Ave., Suite 2500
Portland, OR 97204
O: 503.227.3251
F: 503.224.4681
www.kpff.com

DESIGNED BY
D. Murar / L. Burke
CAD BY
R. Cadua
CHECKED BY
C. Vanderzanden

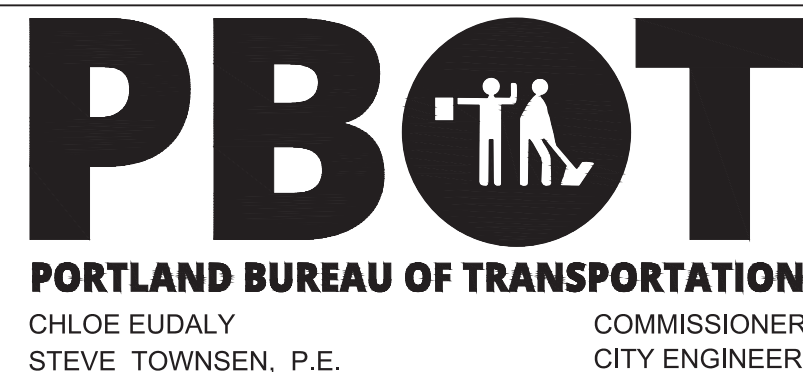
DATE APPROVED
PROGRAM MGR.
CONSTR. MGR.

PRELIMINARY
NOT FOR
CONSTRUCTION

APPROVALS:

SUPERVISING ENGINEER REG. PROF. ENGR. NO. 14956PE

CITY ENGINEER REG. PROF. ENGR. NO. 51538PE



Errol Heights
Street and Storm Improvements

S.E. Tenino Court
Street Plan and Profile

1/4 SECTION
1s2e19
PROJECT NO.
T00526.D42
SHEET NO.

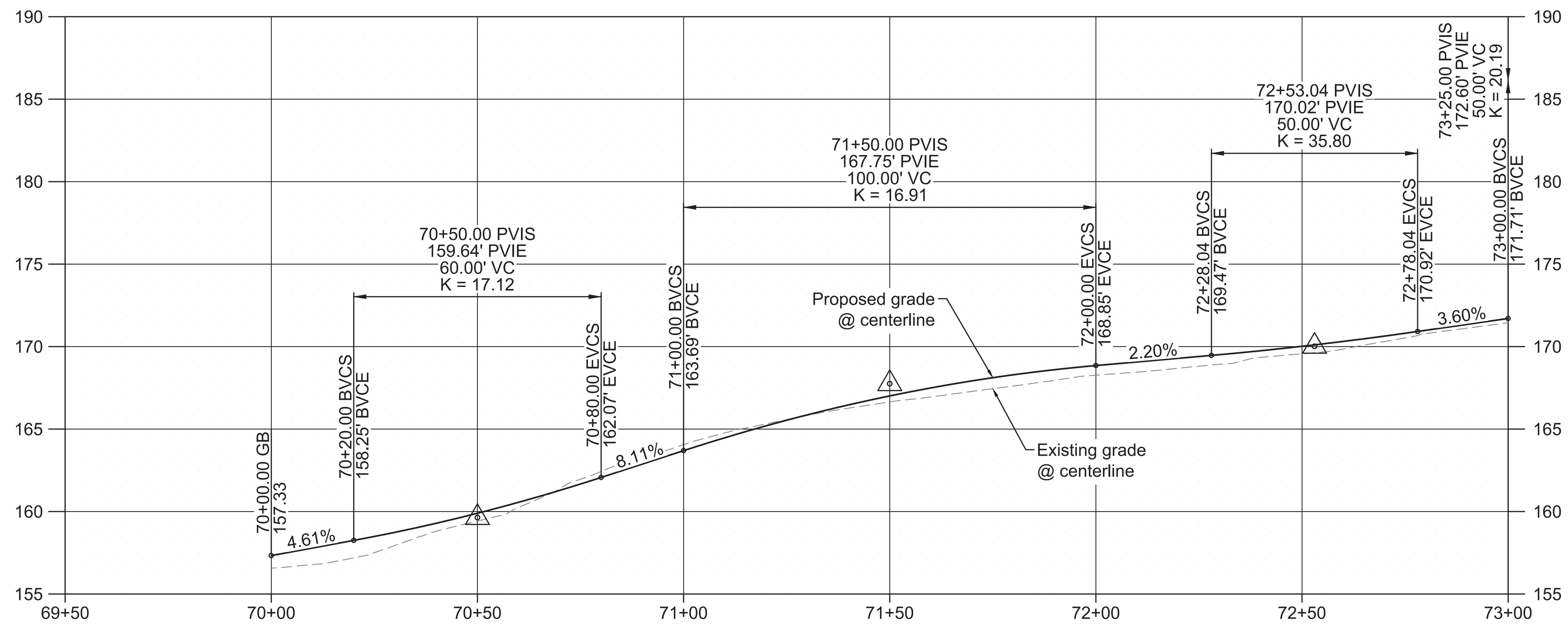
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General Notes:

- 1 See Shts. 2H-1 thru 2H-13 for Tree Protection Plans
- 2 See Shts. D-1 thru D-15 for Drainage Plans.
- 3 See Shts. S-1 thru S-4 for Signing and Striping Plans.
- 4 See Shts. L-1 thru L-15 for Landscape Plans.

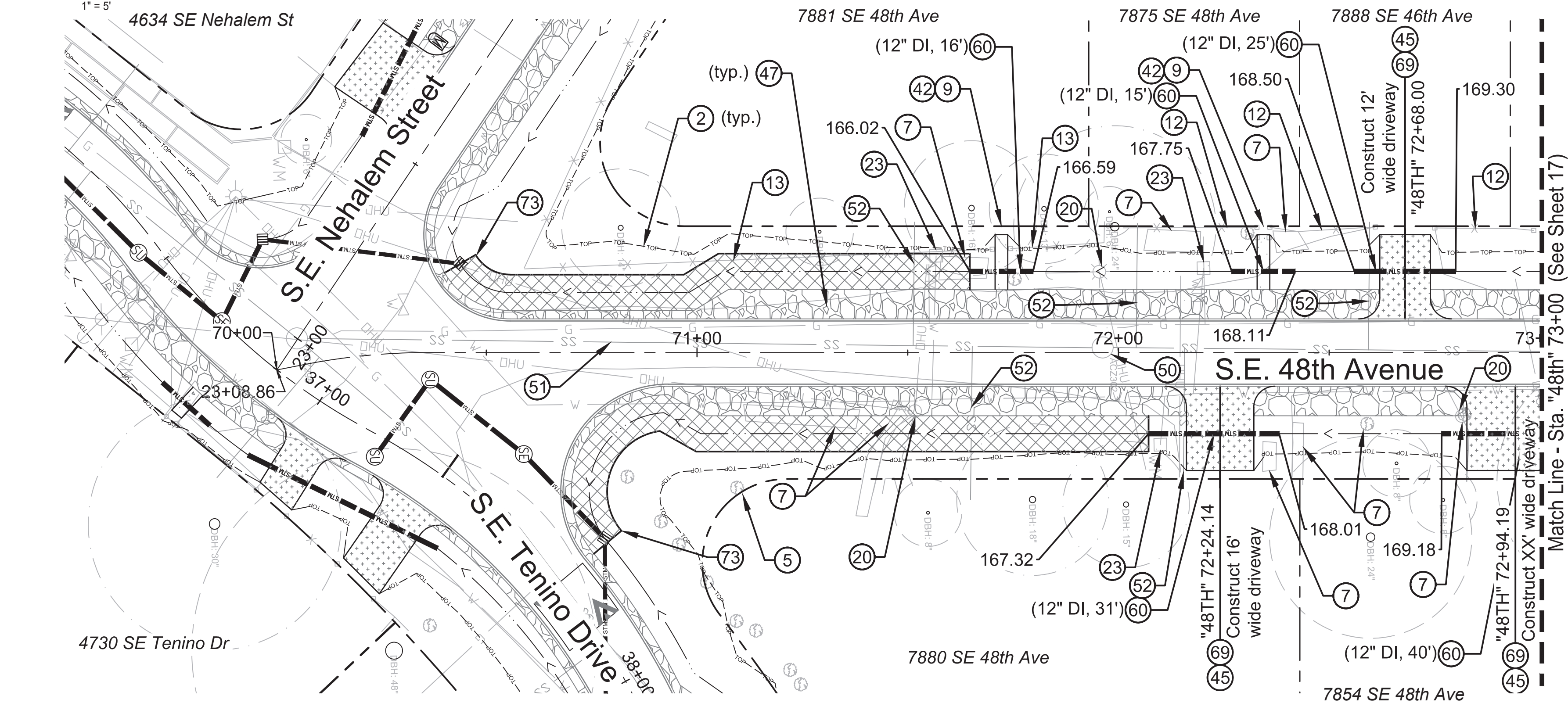
○ Construction Notes

- 2 Limits of cut/fill.
- 5 Protect brush, hedge, other vegetation, or landscaping.
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- 12 Protect fence.
- 13 Remove fence and salvage to owner.
- 20 Relocate utility pole / guy wire (by others). Coordinate with utility company.
- 23 Water meter to be relocated by PWB.
- 42 Construct concrete sidewalk. See Std. Drg. No. P-551.
- 45 Construct asphalt driveway connection. See Std. Drg. No. P-536.
- 47 Construct aggregate shoulder - 6 in. thick.
- 50 Adjust manhole to finished grade.
- 51 Protect sanitary sewer main.
- 52 Protect sanitary service lateral.
- 60 Install culvert. Length and size as shown.
- 69 Construct asphalt driveway. See sht. 2B-2 detail A.
- 73 Construct ditch amoring. See sht. 2B-2 detail D.



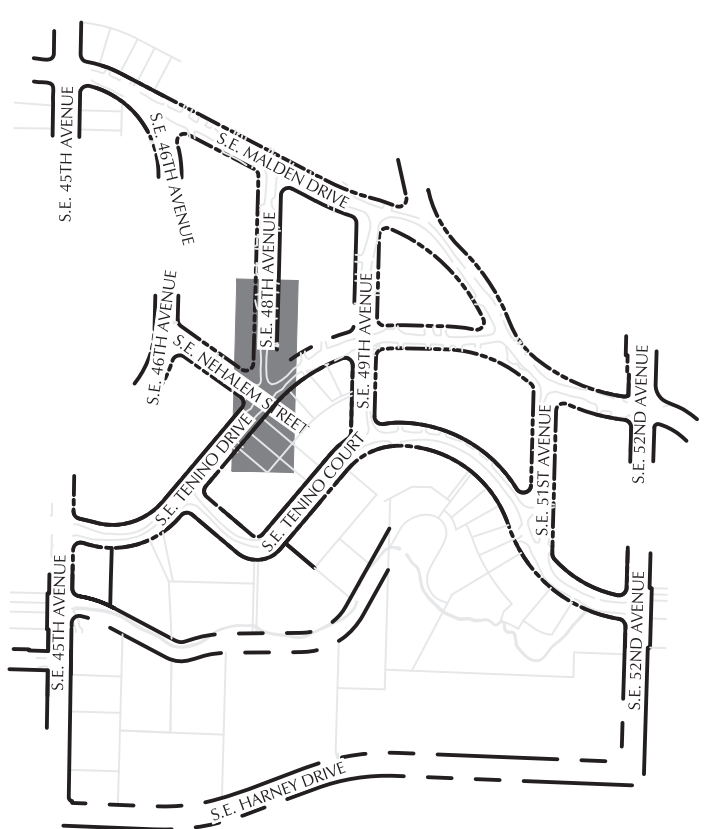
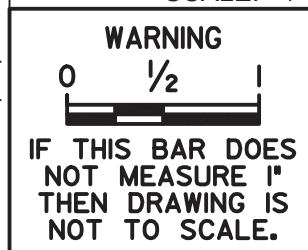
S.E. 48TH AVENUE - PROFILE VIEW

SCALE: 1" = 20'
1" = 5'



S.E. 48TH AVENUE - PLAN VIEW

SCALE: 1" = 20'



KEYMAP



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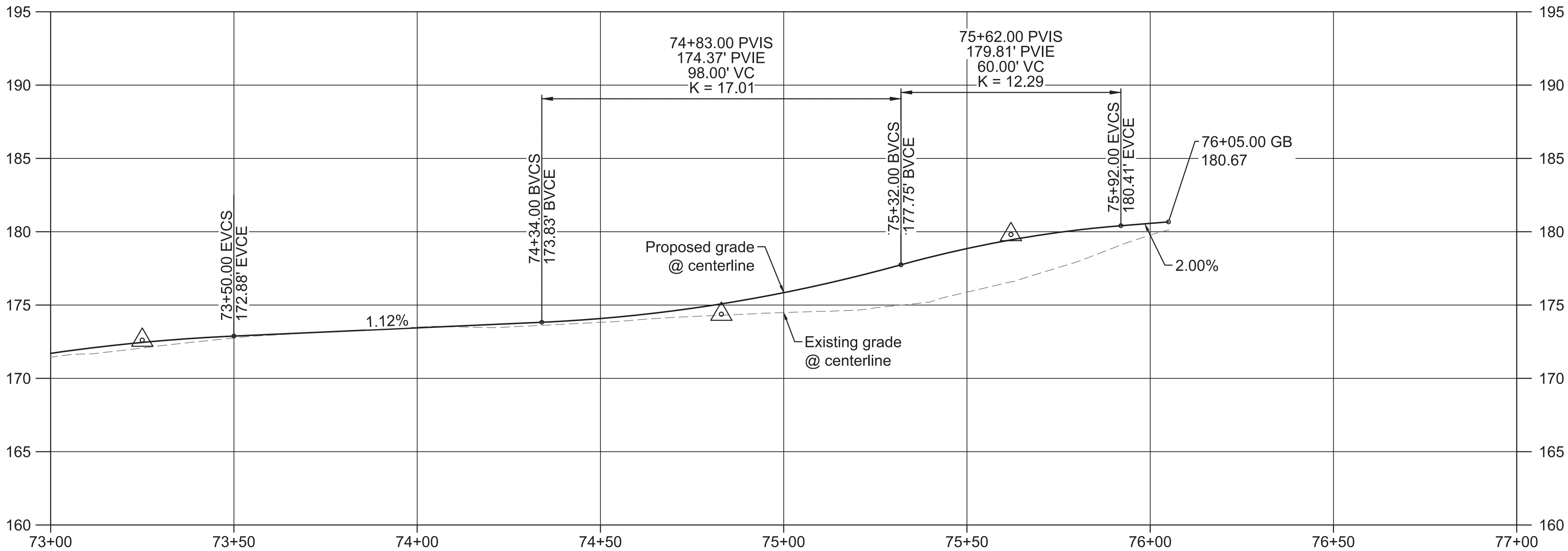
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General Notes:

- 1 See Shts. 2H-1 thru 2H-13 for Tree Protection Plans
- 2 See Shts. D-1 thru D-15 for Drainage Plans.
- 3 See Shts. S-1 thru S-4 for Signing and Striping Plans.
- 4 See Shts. L-1 thru L-15 for Landscape Plans.

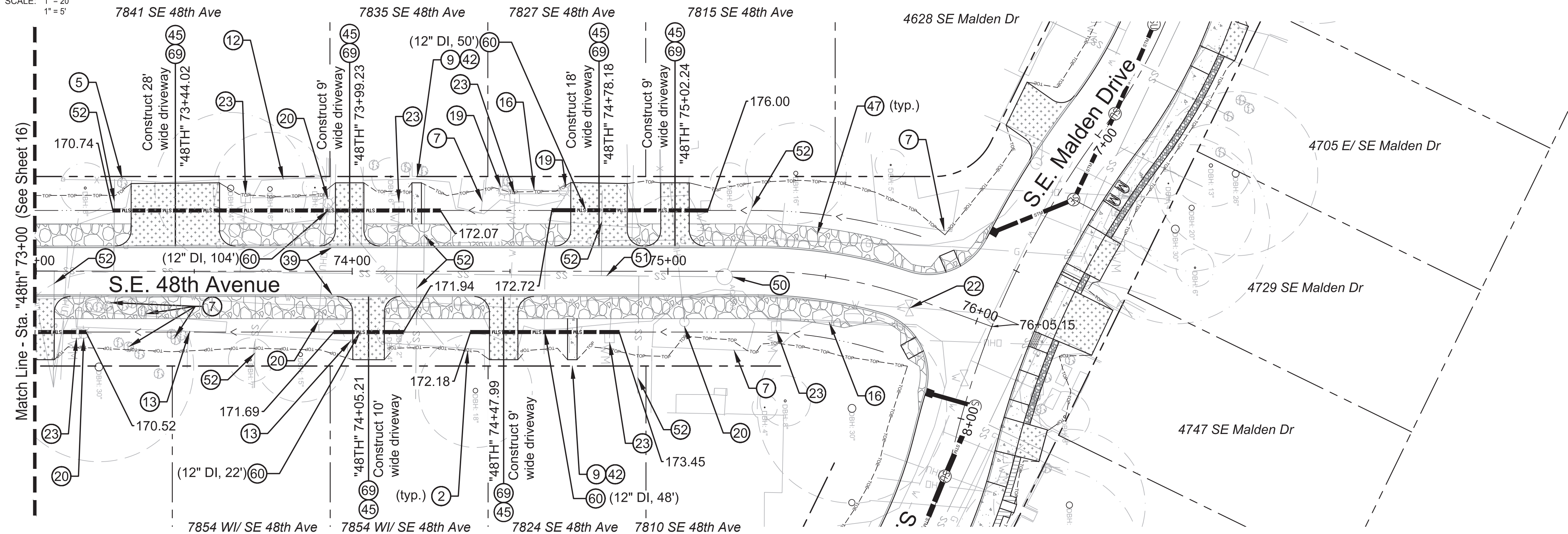
Construction Notes

- 2 Limits of cut/fill.
- 5 Protect brush, hedge, other vegetation, or landscaping.
- 7 Remove brush, hedge, other vegetation, or landscaping.
- 9 Remove sidewalk.
- 12 Protect fence.
- 13 Remove fence and salvage to owner.
- 16 Remove wall.
- 19 Remove light pole.
- 20 Relocate utility pole / guy wire (by others). Coodinate with utility company.
- 22 Adjust box to finished grade.
- 23 Water meter to be relocated by PWB.
- 39 Construct flush curb. See Sht. 2B-1 detail D.
- 42 Construct concrete sidewalk. See Std. Drg. No. P-551.
- 45 Construct asphalt driveway connection. See Std. Drg. No. P-536.
- 47 Construct aggregate shoulder - 6 in. thick.
- 50 Adjust manhole to finished grade.
- 51 Protect sanitary sewer main.
- 52 Protect sanitary service lateral.
- 60 Install culvert. Length and size as shown.
- 69 Construct asphalt driveway. See sht. 2B-2 detail A.



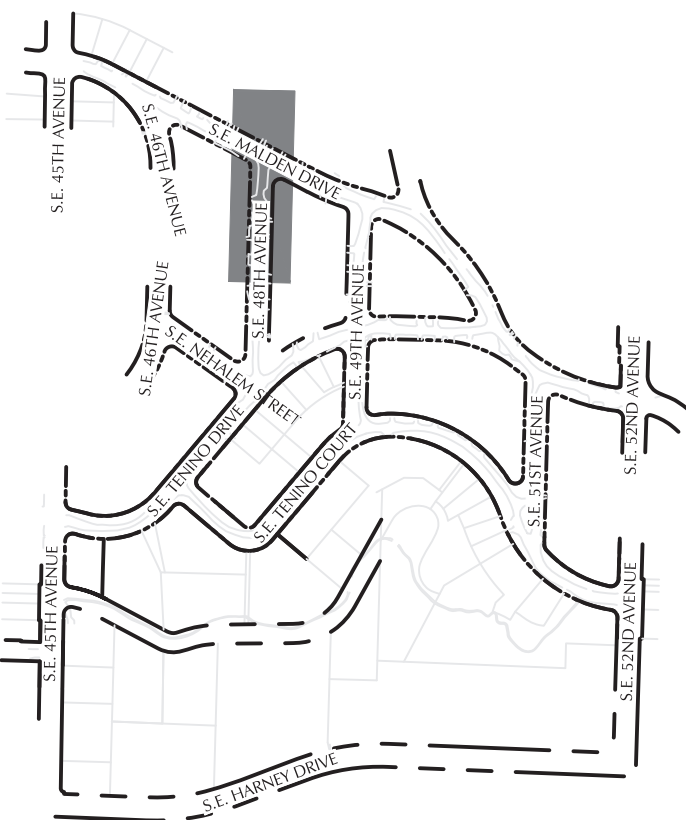
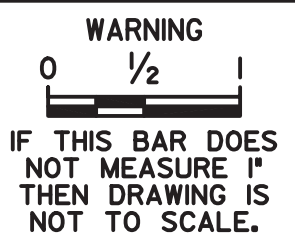
S.E. 48TH AVENUE - PROFILE VIEW

SCALE: 1" = 20'
1" = 5'



S.E. 48TH AVENUE - PLAN VIEW

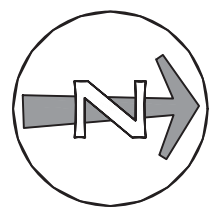
SCALE: 1" = 20'



KEYMAP



111 SW Fifth Ave., Suite 2500
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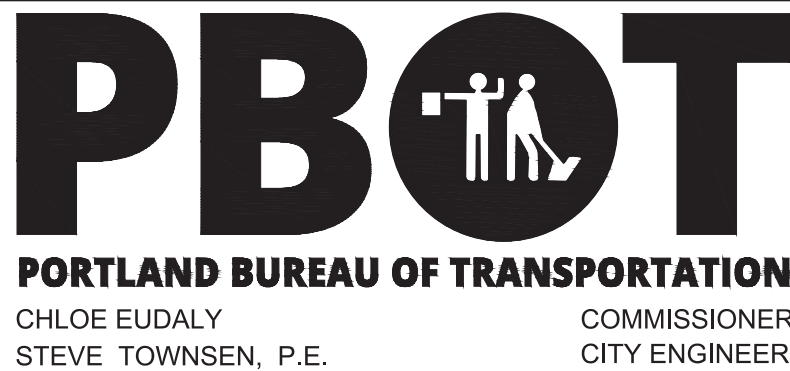


NO.	DATE	DESCRIPTION	REVISION

DESIGNED BY D. Murar / L. Burke	DATE APPROVED
CAD BY R. Cadua	PROGRAM MGR.
CHECKED BY C. Vanderzanden	CONSTR. MGR.

PRELIMINARY
NOT FOR
CONSTRUCTION

APPROVALS:	
SUPERVISING ENGINEER	REG. PROF. ENGR. NO. 14956PE
CITY ENGINEER	REG. PROF. ENGR. NO. 51538PE



Errol Heights
Street and Storm Improvements

S.E. 48th Avenue
Street Plan and Profile

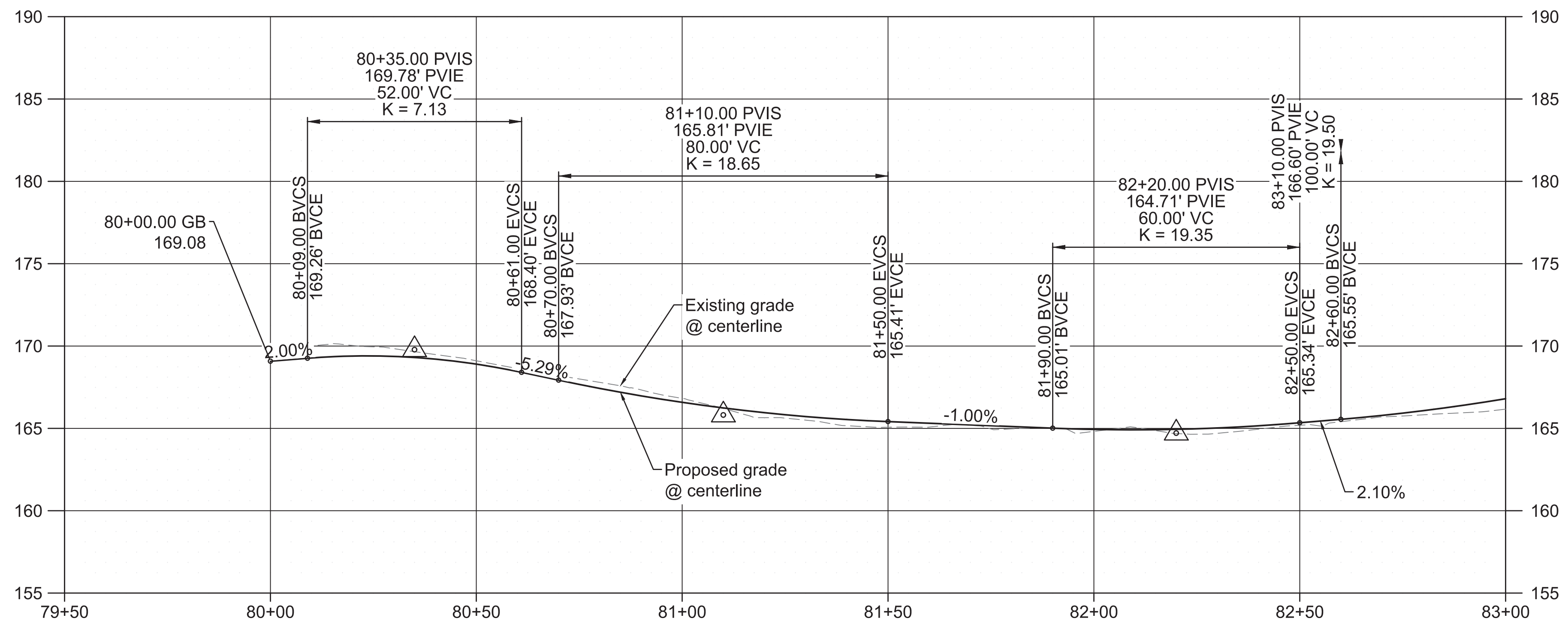
1/4 SECTION 1s2e19
PROJECT NO. T00526.D42
SHEET NO. 17

General Notes:

- 1 See Shts. 2H-1 thru 2H-13 for Tree Protection Plans
- 2 See Shts. D-1 thru D-15 for Drainage Plans.
- 3 See Shts. S-1 thru S-4 for Signing and Striping Plans.
- 4 See Shts. L-1 thru L-15 for Landscape Plans.

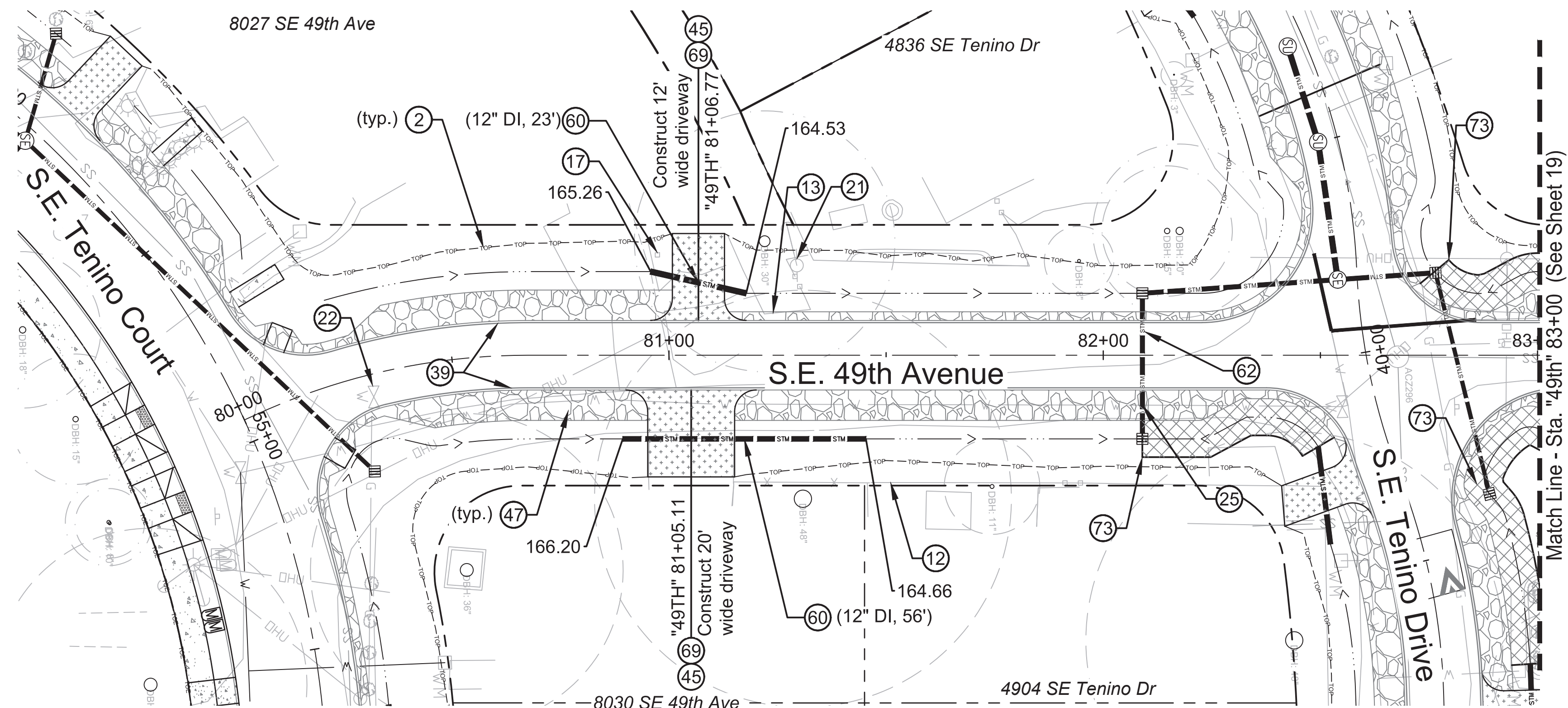
○ Construction Notes

- 2 Limits of cut/fill.
- 12 Protect fence.
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- 17 Remove post.
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- 22 Adjust box to finished grade.
- 25 Pothole and field verify location and depth of water line, coordinate with PWB if necessary.
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- 47 Construct aggregate shoulder - 6 in. thick.
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- 62 Storm Facility. See D sheets for additional information.
- 69 Construct asphalt driveway. See sht. 2B-2 detail A.
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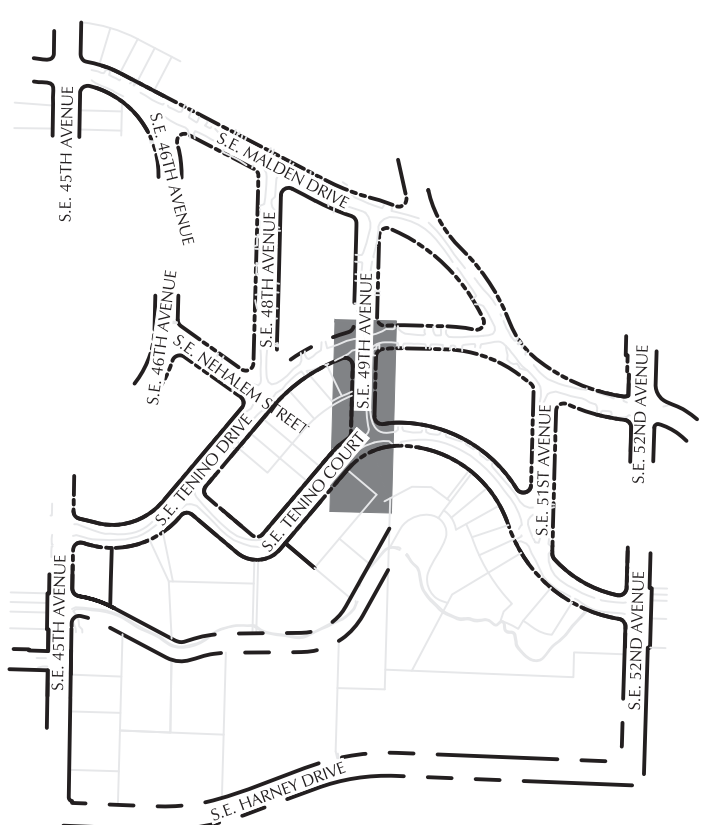
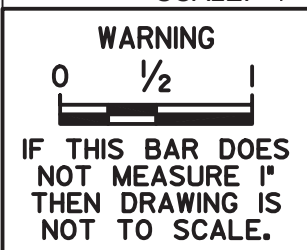
S.E. 49TH AVENUE - PROFILE VIEW

SCALE: 1" = 20'
1" = 5'



S.E. 49TH AVENUE - PLAN VIEW

SCALE: 1" = 20'



KEYMAP



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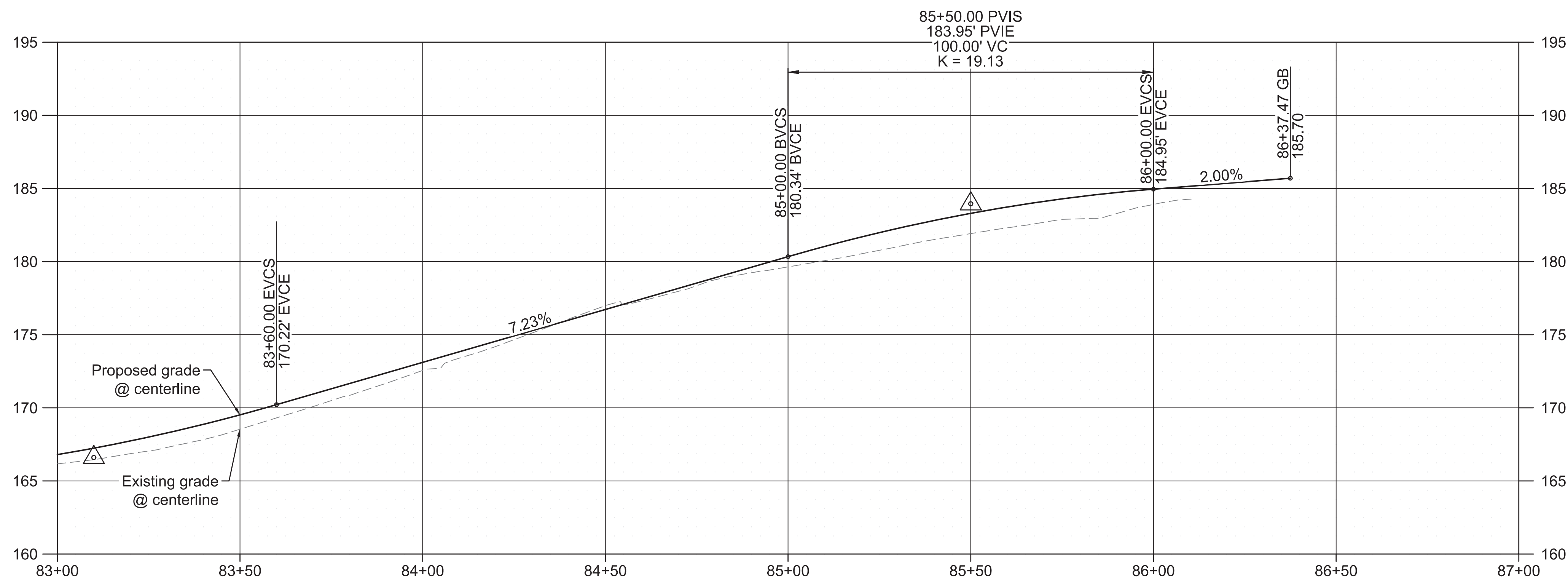
					DESIGNED BY D. Murar / L. Burke	DATE APPROVED	PRELIMINARY NOT FOR CONSTRUCTION	APPROVALS:		 PB<small>OT</small> PORTLAND BUREAU OF TRANSPORTATION CHLOE EUDALY COMMISSIONER STEVE TOWNSEN, P.E. CITY ENGINEER	 <i>Errol Heights</i> <i>Street and Storm Improvements</i> <i>S.E. 49th Avenue</i> <i>Street Plan and Profile</i>	1/4" SECTION 1s2e19
				CAD BY R. Cadua	PROGRAM MGR.			SUPERVISING ENGINEER	REG. PROF. ENGR. NO. 14956PE			PROJECT NO. T00526.D42
				CHECKED BY C. Vanderzanden	CONSTR. MGR.			CITY ENGINEER	REG. PROF. ENGR. NO. 51538PE			SHEET NO. 18
NO.	DATE	DESCRIPTION	APPD.									

General Notes:

- 1 See Shts. 2H-1 thru 2H-13 for Tree Protection Plans
2 See Shts. D-1 thru D-15 for Drainage Plans.
3 See Shts. S-1 thru S-4 for Signing and Striping Plans.
4 See Shts. L-1 thru L-15 for Landscape Plans.

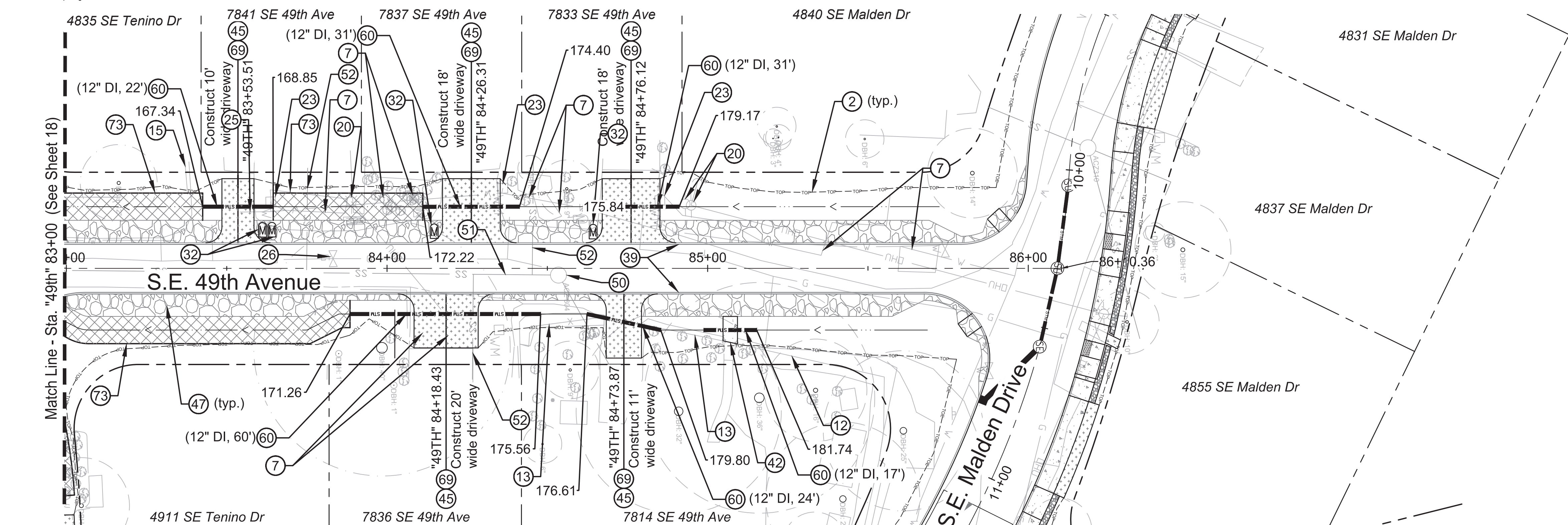
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- 25 Pothole and field verify location and depth of water line, coordinate with PWB if necessary.
- 26 Adjust gas facility to finished grade (by others).
- 32 Relocate mailbox. See Std. Drg. No. RD100 and RD101.
- 39 Construct flush curb. See Sht. 2B-1 detail D.
- 42 Construct concrete sidewalk. See Std. Drg. No. P-551.
- 45 Construct asphalt driveway connection. See Std. Drg. No. P-536.
- 47 Construct aggregate shoulder - 6 in. thick.
- 50 Adjust manhole to finished grade.
- 51 Protect sanitary sewer main.
- 52 Protect sanitary service lateral.
- 60 Install culvert. Length and size as shown.
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- 73 Construct ditch armoring. See sht. 2B-2 detail D.



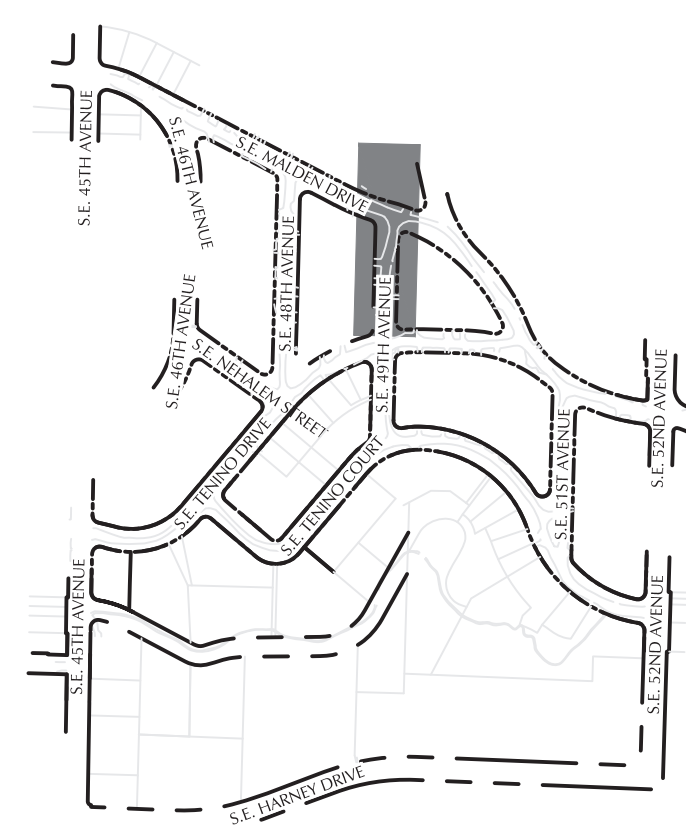
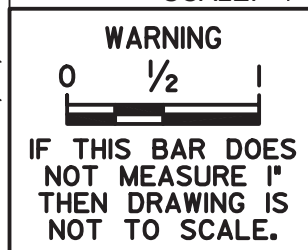
S.E. 49TH AVENUE - PROFILE VIEW

SCALE: 1" = 20'
1" = 5'



S.E. 49TH AVENUE - PLAN VIEW


SCALE: 1" = 20'

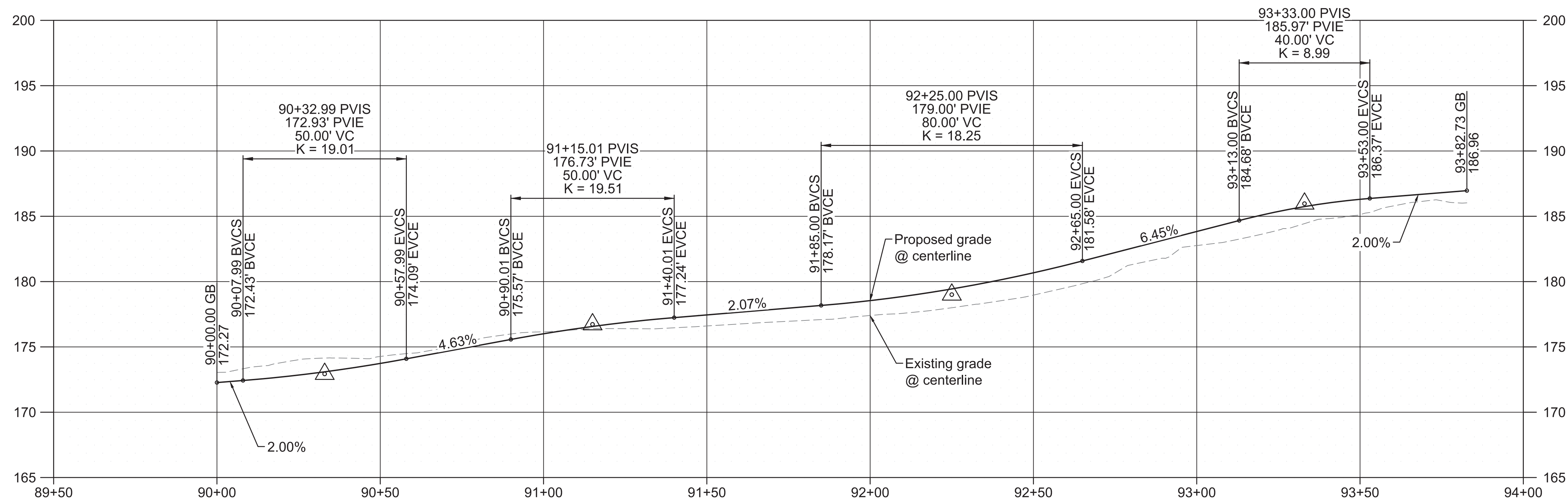


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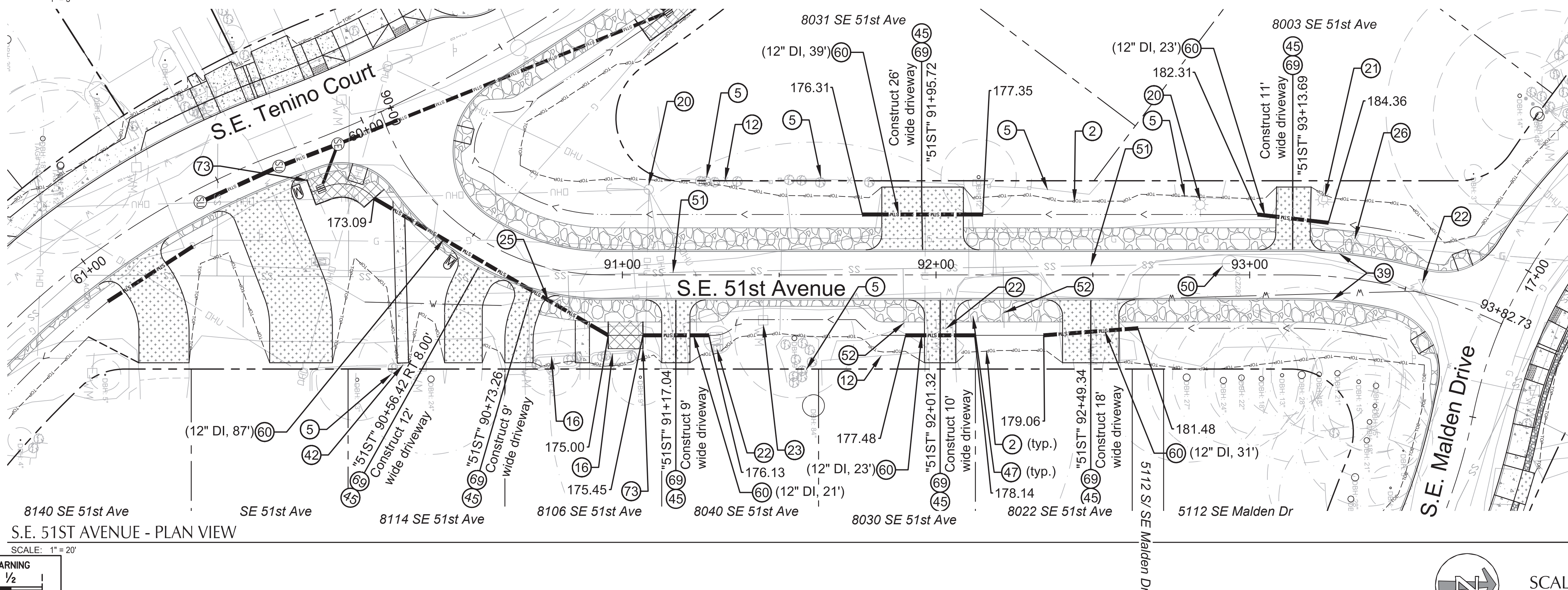
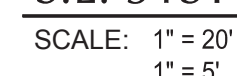


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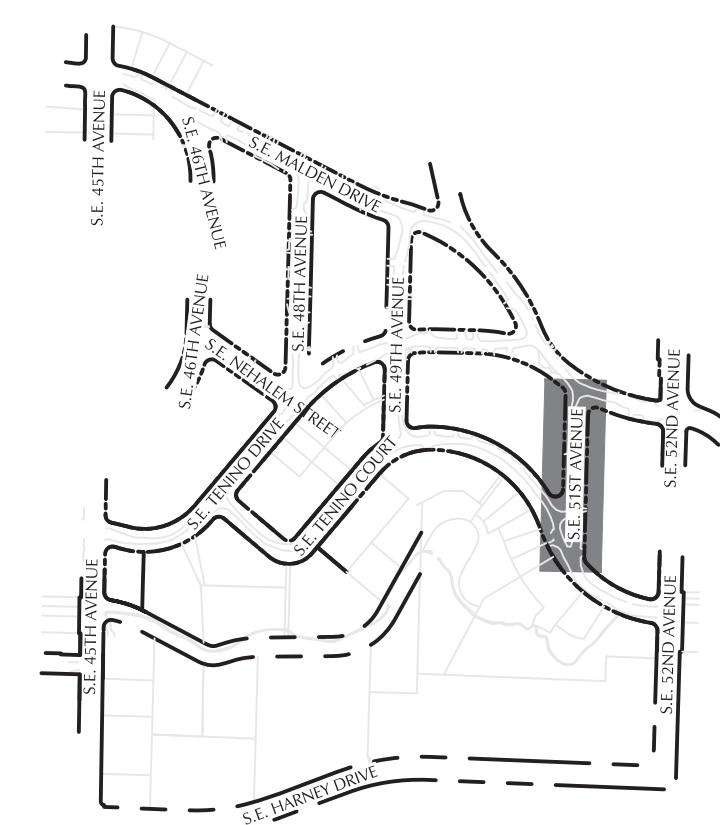
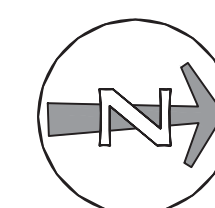
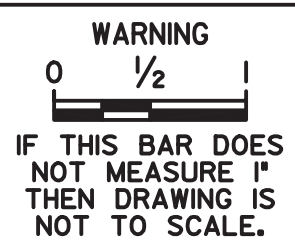
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			CAD BY <i>R. Cadua</i>	PROGRAM MGR.		SUPERVISING ENGINEER			REG. PROF. ENGR. NO. 14956PE	PROJECT NO. T00526.D4
			CHECKED BY <i>C. Vanderzanden</i>	CONSTR. MGR.		CITY ENGINEER			REG. PROF. ENGR. NO. 51538PE	SHEET NO.
NO.	DATE	DESCRIPTION	APPD.							19
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S.E. 51ST AVENUE - PROFILE VIEW



S.E. 51ST AVENUE - PLAN VIEW



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Errol Heights Street and Storm Improvements

S.E. 51st Avenue Street Plan and Profile

1/4 SECTION

1e2e19

132619

PROJECT NO.

T00526.D4.

[illegible]

SHEET NO.

20

DESIGNED BY	<i>D. Murar / L. Burke</i>
CAD BY	<i>R. Cadua</i>
CHECKED BY	<i>C. Vanderzanden</i>

DATE APPROVED
PROGRAM MGR.
CONSTR. MGR.

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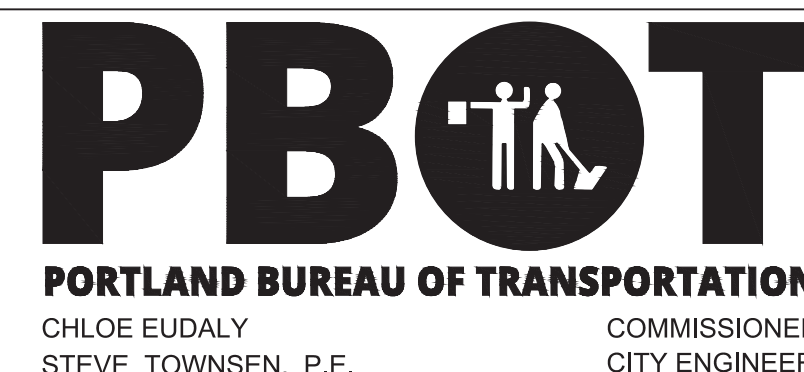
APPROVALS:

SUPERVISING ENGINEER

CITY ENGINEER

REG PROF ENGR NO 14956PF

REG PROF ENGR NO 51538PF



Errol Heights Street and Storm Improvements

S.E. 51st Avenue Street Plan and Profile

1/4 SECTION

1e2e19

132619

PROJECT NO.

T00526.D4.

[illegible]

SHEET NO.

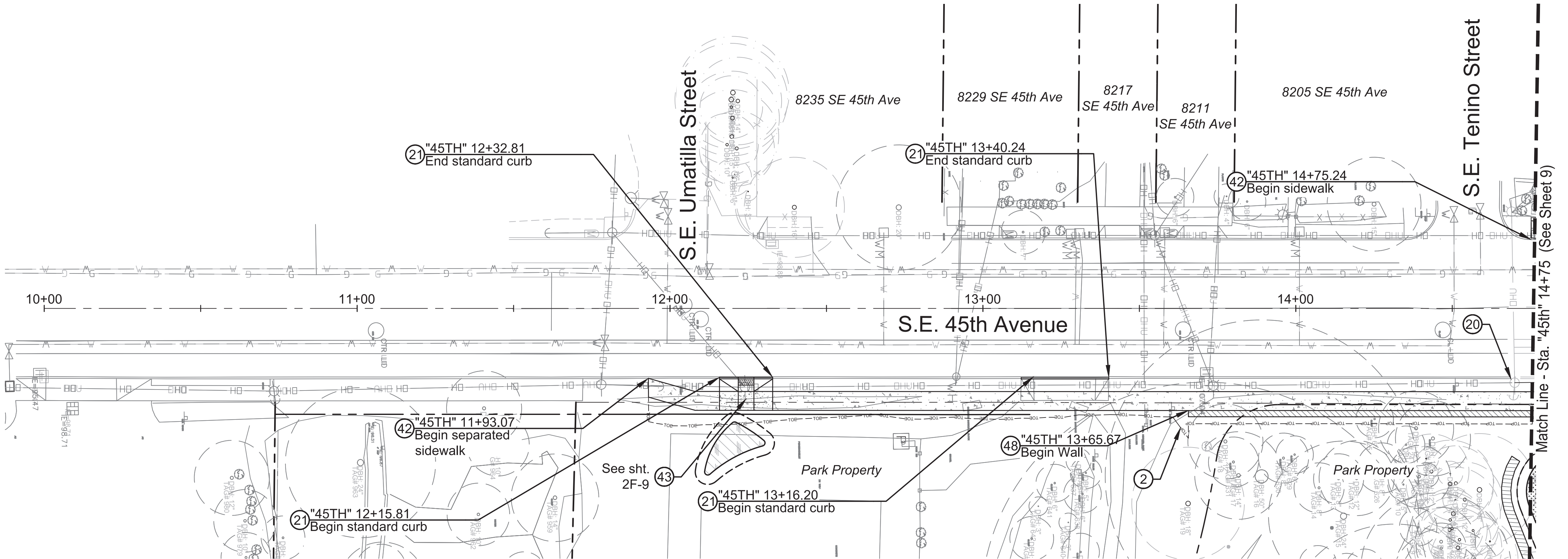
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General Notes:

- 1 See Shts. 2H-1 thru 2H-13 for Tree Protection Plans
- 2 See Shts. D-1 thru D-15 for Drainage Plans.
- 3 See Shts. S-1 thru S-4 for Signing and Striping Plans.
- 4 See Shts. L-1 thru L-15 for Landscape Plans.

Construction Notes

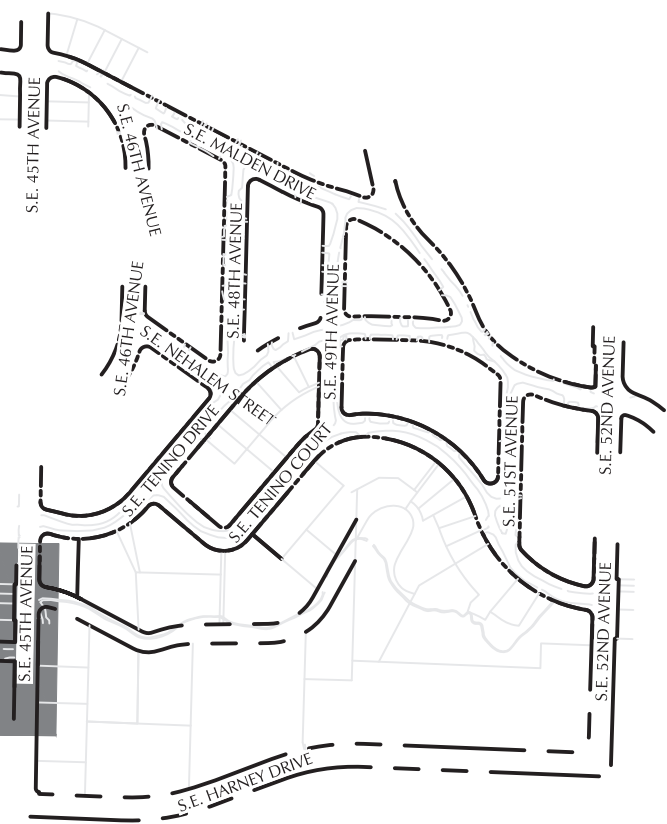
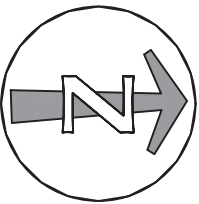
- 2 Limits of cut/fill.
- 20 Relocate utility pole / guy wire (by others). Coodinate with utility company.
- 40 Construct standard curb. See Std. Drg. No. P-540.
- 42 Construct concrete sidewalk. See Std. Drg. No. P-551.
- 43 Construct curb ramp. See Std. Drg. No. P-547 & p-548.
- 48 Construct gabion cut retaining wall. See Sht. 2B-1 detail B.



S.E. 45TH AVENUE - PLAN VIEW

SCALE: 1" = 20'

WARNING
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



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CITY ENGINEER	REG. PROF. ENGR. NO. 51538PE

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Errol Heights
Street and Storm Improvements

S.E. 45th Avenue
Street Plan and Profile

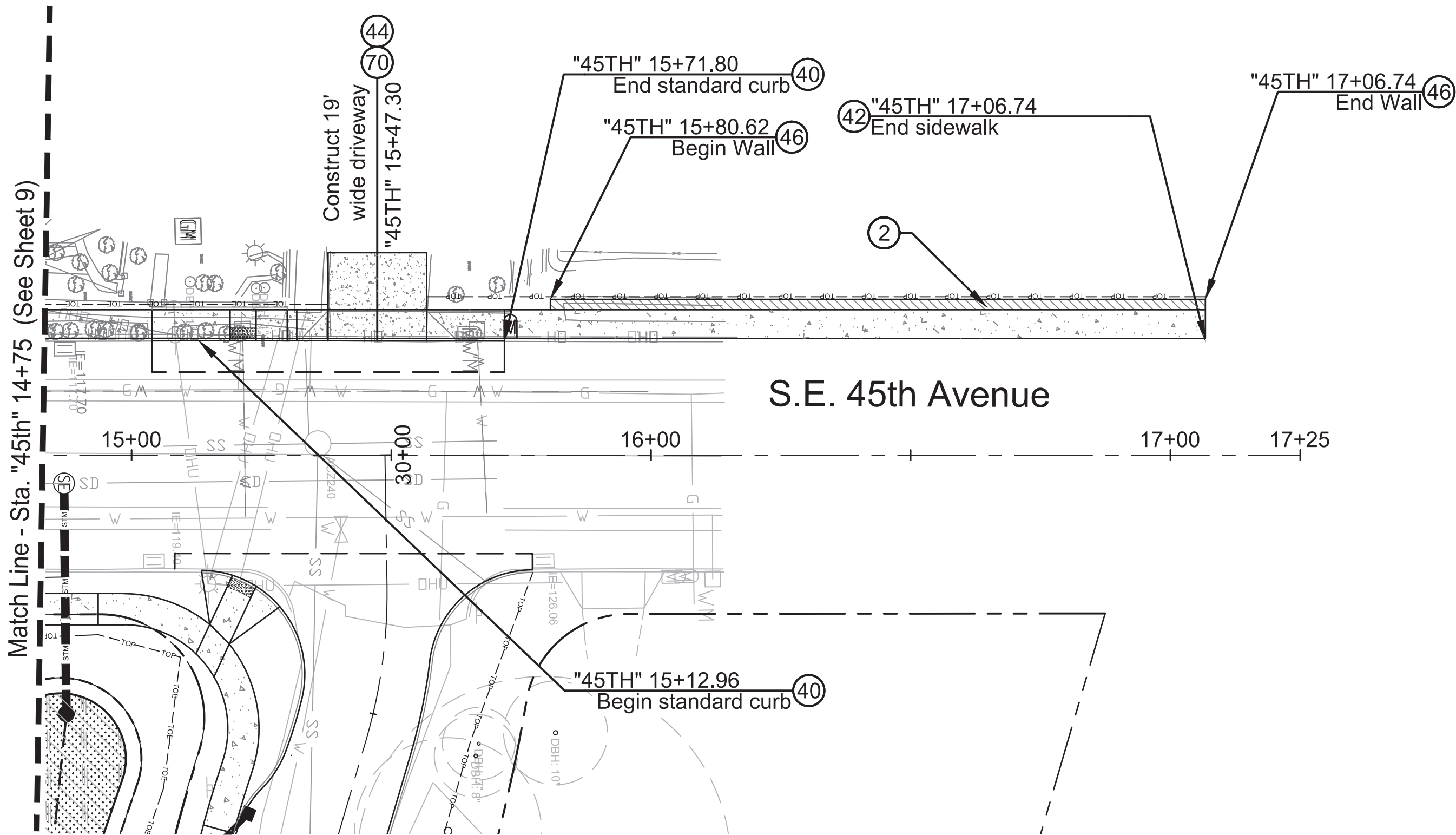
1/4 SECTION 1s2e19
PROJECT NO. T00526.D42
SHEET NO. 21

General Notes:

- 1 See Shts. 2H-1 thru 2H-13 for Tree Protection Plans
- 2 See Shts. D-1 thru D-15 for Drainage Plans.
- 3 See Shts. S-1 thru S-4 for Signing and Striping Plans.
- 4 See Shts. L-1 thru L-15 for Landscape Plans.

Construction Notes

- 2 Limits of cut/fill.
- 20 Relocate utility pole / guy wire (by others). Coodinate with utility company.
- 40 Construct standard curb. See Std. Drg. No. P-540.
- 42 Construct concrete sidewalk. See Std. Drg. No. P-551.
- 44 Construct concrete driveway connection. See Std. Drg. No. P-536.
- 46 Construct modular retaining wall. See Sht. 2B-1 detail A.
- 70 Construct partially lowered concrete driveway. See Std. Drg. No. P-532.



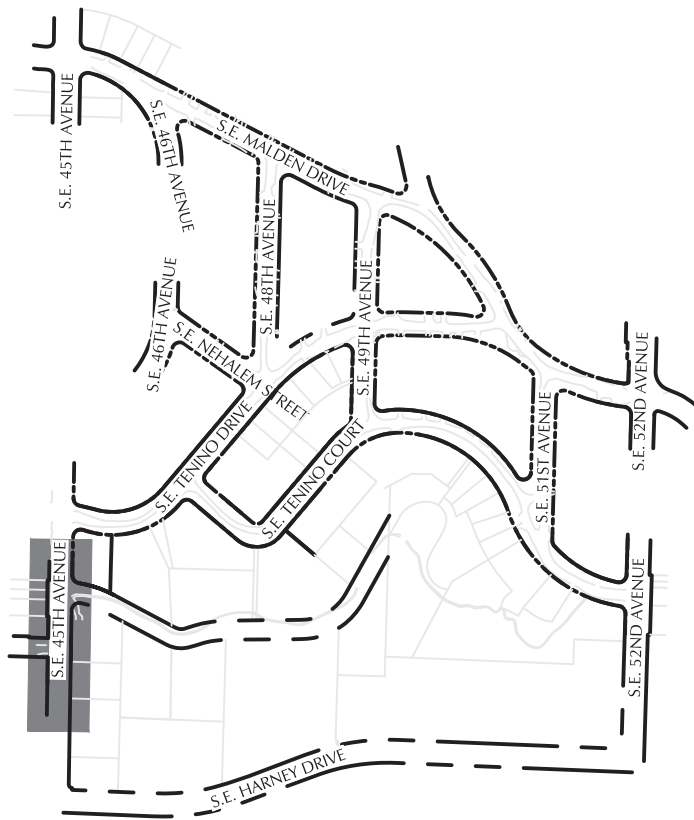
S.E. 45TH AVENUE - PLAN VIEW

SCALE: 1" = 20'

WARNING

0 1/2 1

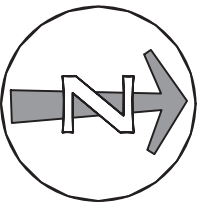
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



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CHECKED BY <i>C. Vanderzanden</i>	CONSTR. MGR.
APPD.	

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CITY ENGINEER	REG. PROF. ENGR. NO. 51538PE

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Errol Heights
Street and Storm Improvements

S.E. 45th Avenue
Street Plan and Profile

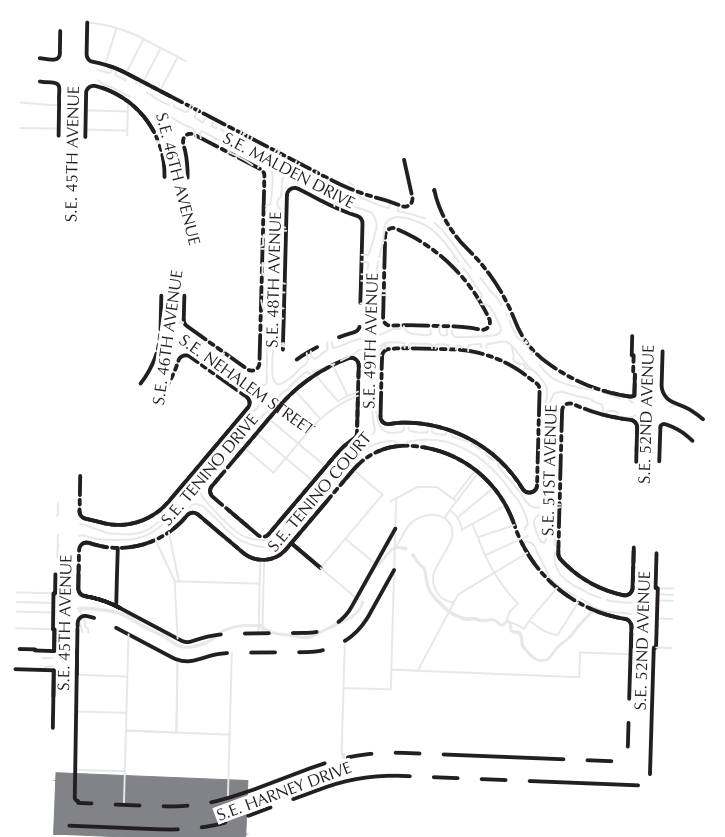
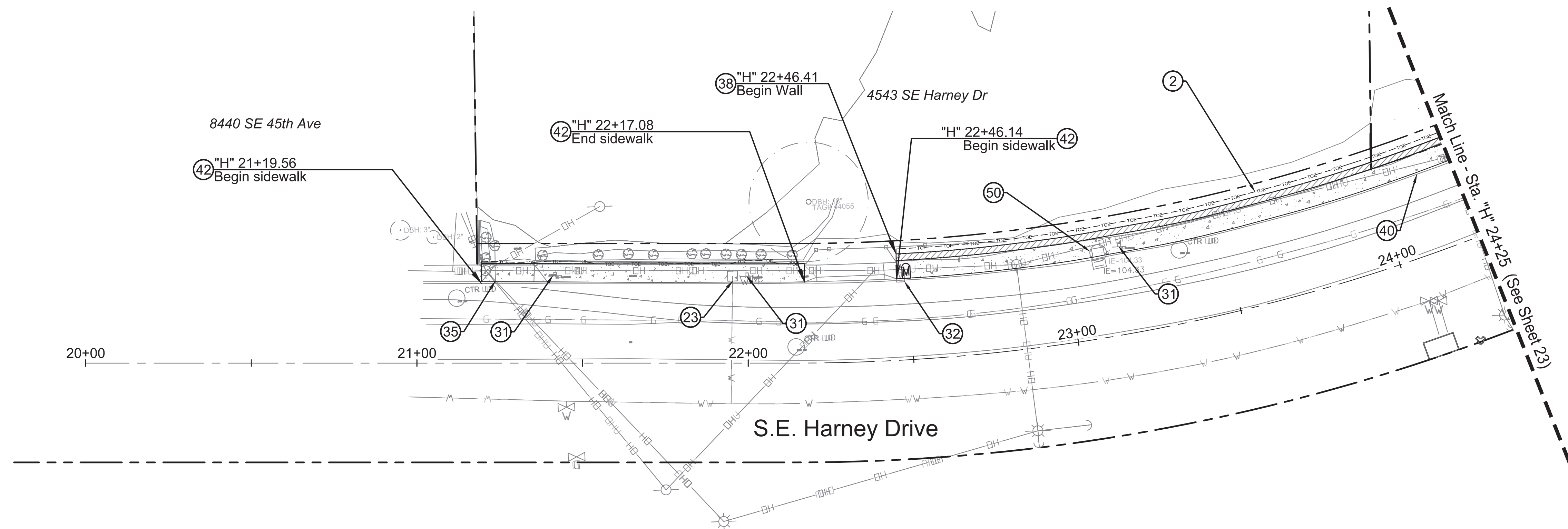
1/4 SECTION 1s2e19
PROJECT NO. T00526.D42
SHEET NO. 22

General Notes:

- 1 See Shts. 2H-1 thru 2H-13 for Tree Protection Plans
- 2 See Shts. D-1 thru D-15 for Drainage Plans.
- 3 See Shts. S-1 thru S-4 for Signing and Striping Plans.
- 4 See Shts. L-1 thru L-15 for Landscape Plans.

○ Construction Notes

- 2 Limits of cut/fill.
- 20 Relocate utility pole / guy wire (by others). Coordinate with utility company.
- 23 Water meter to be relocated by PWB.
- 31 Relocate sign and post. See Shts S-1 thru S-4.
- 32 Relocate mailbox. See Std. Drg. No. RD100 and RD101.
- 35 Remove driveway.
- 38 Construct gabion fill retaining wall. See Sht. 2B-1 detail C.
- 40 Construct standard curb. See Std. Drg. No. P-540.
- 42 Construct concrete sidewalk. See Std. Drg. No. P-551.
- 50 Adjust manhole to finished grade.



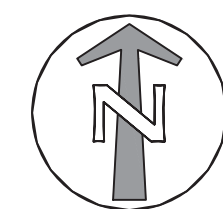
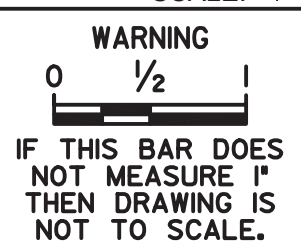
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S.E. HARNEY DRIVE - PLAN VIEW

SCALE: 1" = 20'



SCALE 1 INCH = 20 FEET

20 0 20 40

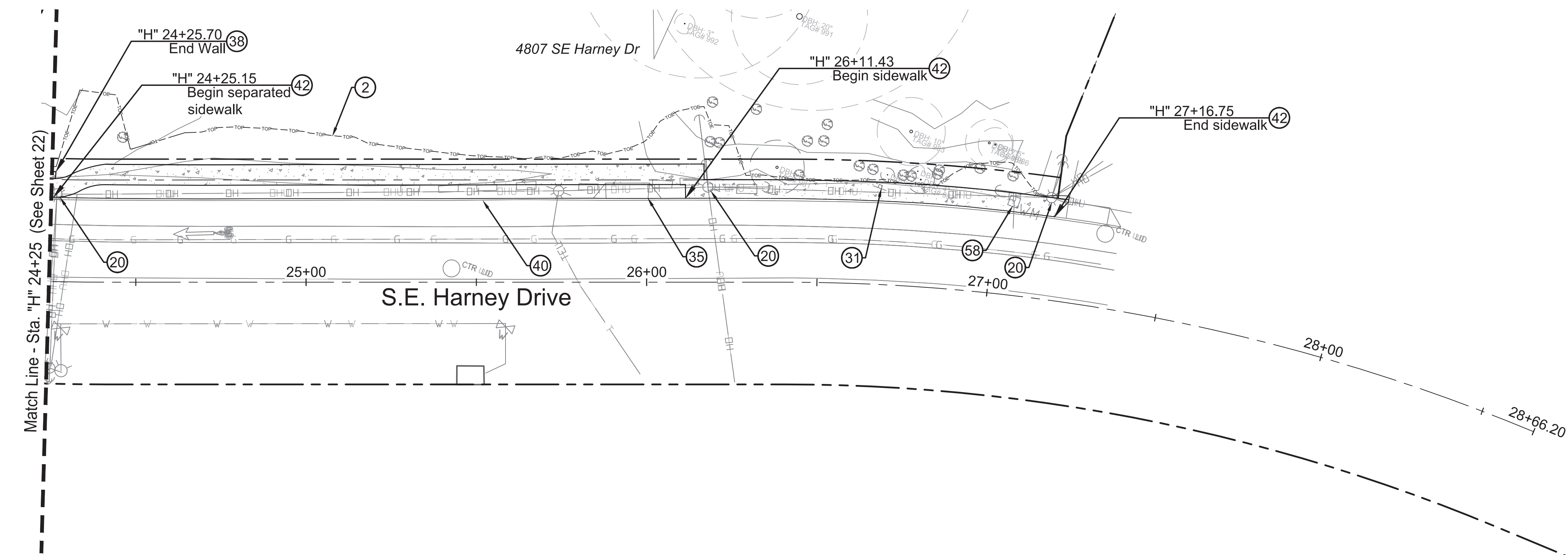
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					CAD BY <i>R. Cadua</i>	PROGRAM MGR.		SUPERVISING ENGINEER			REG. PROF. ENGR. NO. 14956PE	PROJECT NO. T00526.D42
					CHECKED BY <i>C. Vanderzanden</i>	CONSTR. MGR.		CITY ENGINEER			REG. PROF. ENGR. NO. 51538PE	SHEET NO. 23
NO.	DATE		DESCRIPTION	APPD.								
REVISION												

General Notes:

- 1 See Shts. 2H-1 thru 2H-13 for Tree Protection Plans
- 2 See Shts. D-1 thru D-15 for Drainage Plans.
- 3 See Shts. S-1 thru S-4 for Signing and Striping Plans.
- 4 See Shts. L-1 thru L-15 for Landscape Plans.

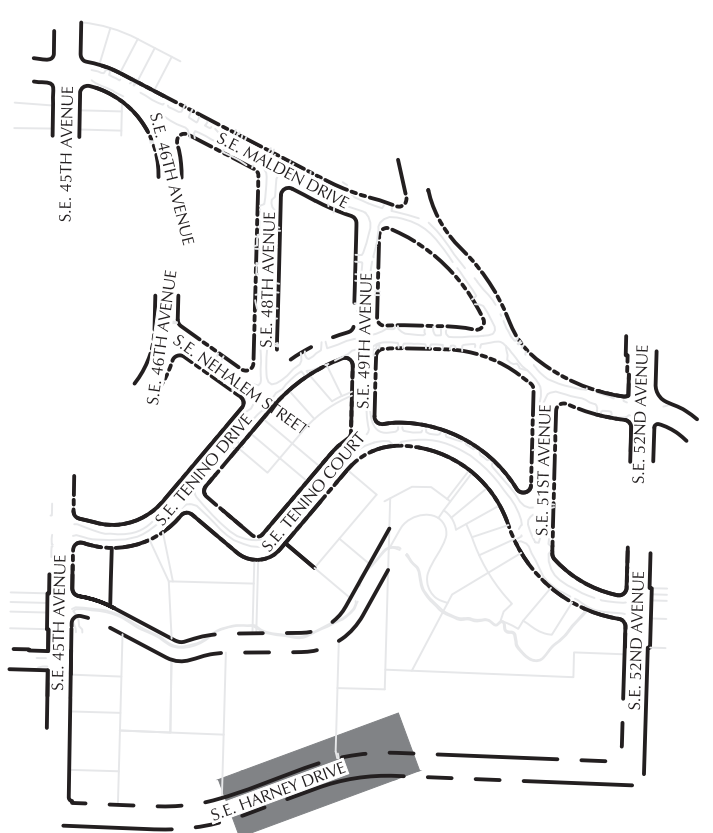
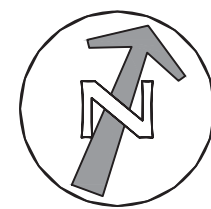
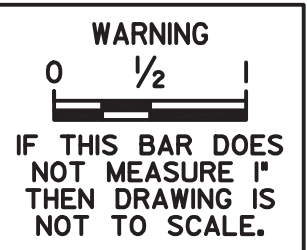
○ Construction Notes

- 2 Limits of cut/fill.
- 20 Relocate utility pole / guy wire (by others). Coordinate with utility company.
- 31 Relocate sign and post. See Shts S-1 thru S-4.
- 35 Remove driveway.
- 38 Construct gabion fill retaining wall. See Sht. 2B-1 detail C.
- 40 Construct standard curb. See Std. Drg. No. P-540.
- 42 Construct concrete sidewalk. See Std. Drg. No. P-551.
- 58 Remove water meter.



S.E. HARNEY DRIVE - PLAN VIEW


SCALE: 1" = 20'



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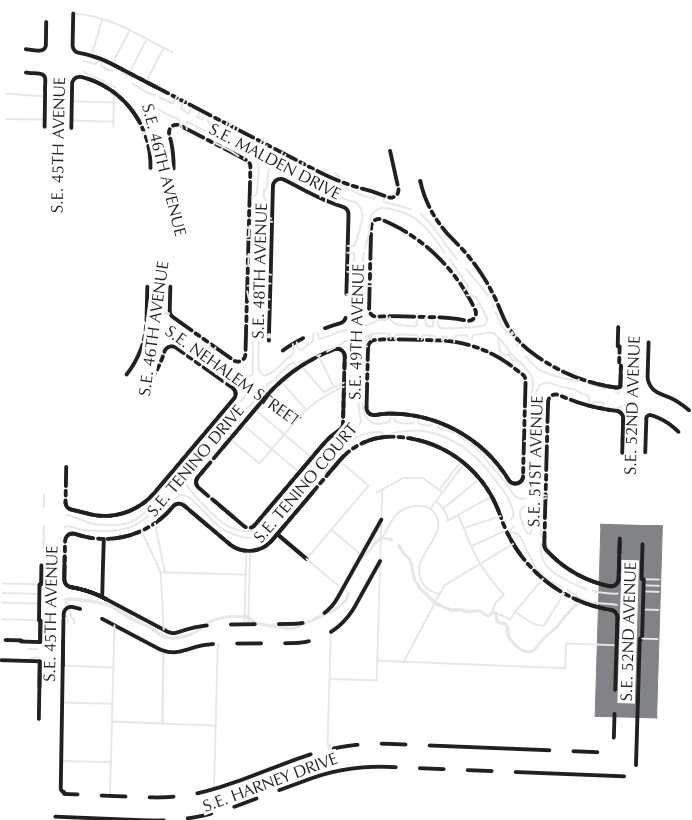
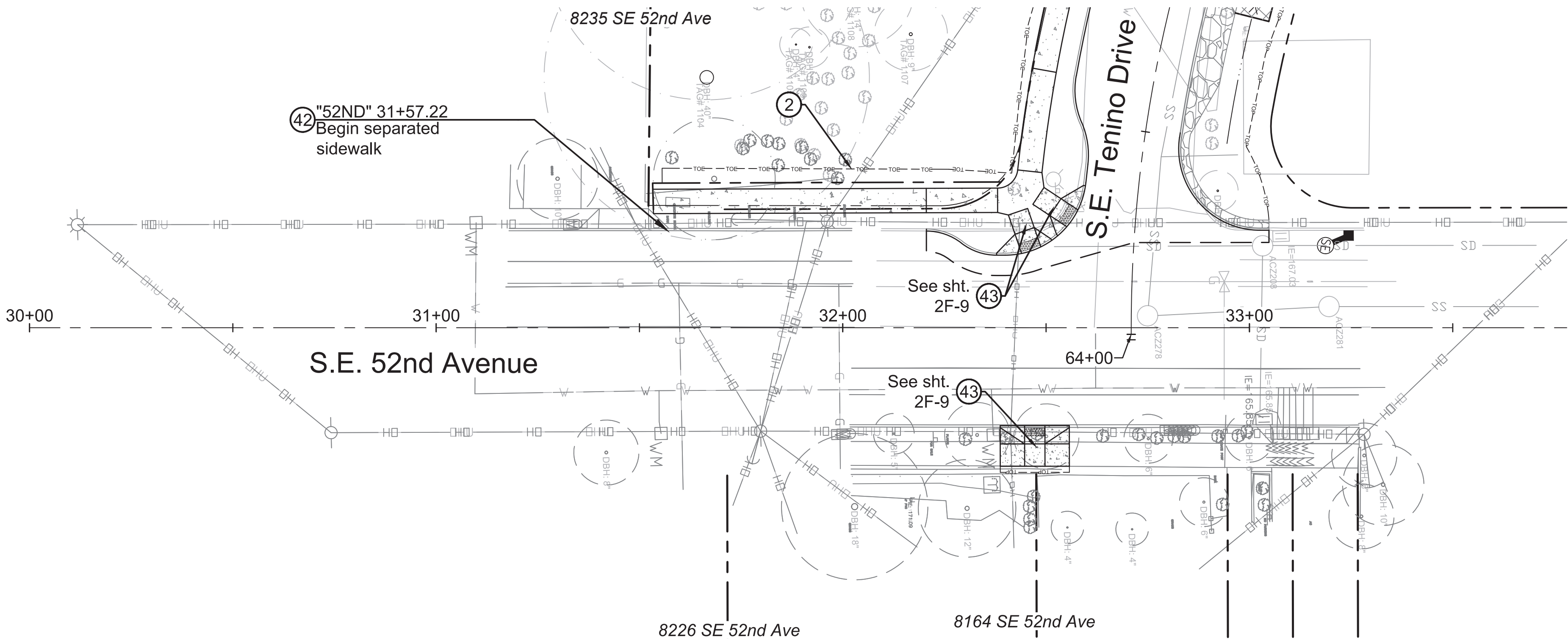
					DESIGNED BY D. Murar / L. Burke	DATE APPROVED	PRELIMINARY NOT FOR CONSTRUCTION	APPROVALS:	<div><div>PBOT</div><div>PORTLAND BUREAU OF TRANSPORTATION</div><div>CHLOE EUDALY STEVE TOWNSEN, P.E.</div><div>COMMISSIONER CITY ENGINEER</div></div> <div><div></div><div>Errol Heights Street and Storm Improvements</div><div>S.E. Harney Drive Street Plan and Profile</div></div>	1/4" SECTION 1s2e19	
					CAD BY R. Cadua	PROGRAM MGR.		SUPERVISING ENGINEER		REG. PROF. ENGR. NO. 14956PE	PROJECT NO. T00526.D42
					CHECKED BY C. Vanderzanden	CONSTR. MGR.		CITY ENGINEER		REG. PROF. ENGR. NO. 51538PE	SHEET NO.
NO.	DATE	DESCRIPTION			APPD.						24
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General Notes:

- 1 See Shts. 2H-1 thru 2H-13 for Tree Protection Plans
2 See Shts. D-1 thru D-15 for Drainage Plans.
3 See Shts. S-1 thru S-4 for Signing and Striping Plans.
4 See Shts. L-1 thru L-15 for Landscape Plans.

○ Construction Notes

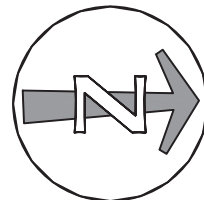
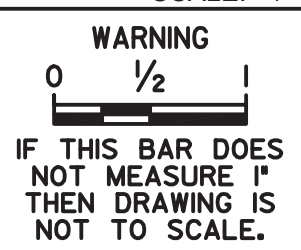
- 2 Limits of cut/fill.
- 20 Relocate utility pole / guy wire (by others). Coordinate with utility company.
- 42 Construct concrete sidewalk. See Std. Drg. No. P-551.
- 43 Construct curb ramp. See Std. Drg. No. P-547 & p-548.



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S.E. 52ND AVENUE - PLAN VIEW

SCALE: 1" = 20'





SCALE 1 INCH = 20 FEET

20 0 20 40



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			CAD BY R. Cadua		PROGRAM MGR.			SUPERVISING ENGINEER REG. PROF. ENGR. NO. 14956PE				Street and Storm Improvements	
			CHECKED BY C. Vanderzanden		CONSTR. MGR.			CITY ENGINEER REG. PROF. ENGR. NO. 51538PE				S.E. 52nd Avenue <i>Street Plan and Profile</i>	
NO. DATE DESCRIPTION REVISION			APPD.									SHEET NO. <div style="font-size: 2em; font-weight: bold;">25</div>	